

1930

BRASS & COPPER SALES CO.

STOCK LIST

WITH TABLES

"Unexcelled Service in Brass and Copper"

A Complete Stock
of
BRASS-COPPER-BRONZE
SHEETS, RODS, TUBES,
ETC.

Immediate Stock & Mill Shipments

Telephone JEfferson 4600

BRASS & COPPER SALES CO.

Branch Office and Warehouse of
ROME BRASS & COPPER CO.

Division of
REVERE COPPER & BRASS, INC.

2817 Laclede Ave.

St. Louis, Mo.

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#9 \$2-
PHONE
JEFFERSON
4600



OUR NEW MODERN WAREHOUSE AND OFFICE
2817 Laclede Ave.
St. Louis, Mo.
Shipping and Receiving at rear.

RULES TO OBSERVE IN ORDERING

GENERAL INFORMATION DESIRED.

On all orders or inquiries give full information regarding thickness, width, length, and temper. An outline of the purpose for which the material is intended is essential on initial orders. A sample or blue print will aid in determining the proper materials required.

GAUGE

Specifying thickness in decimal parts of an inch is strongly recommended. All gauge numbers applying to orders for Brass, Bronze and Copper in the form of Sheets, Wire and Tubes will be interpreted according to the American or Brown & Sharpe's Standard, unless otherwise ordered. On Sheet Copper it is customary to express thickness by weight to the square foot or by the weight of a standard thirty by sixty inch sheet.

DIAMETER MEASUREMENTS

For either Brazed or Seamless Tubes state whether the diameter given is "inside" or "outside". Otherwise, it will be considered that outside measurements are required.

ANNEALS AND TEMPER

The character of either the Anneal or the Temper should always be specified. Sheet Brass will be shipped soft unless otherwise ordered. - Other common Tempers are "Half-Hard", "Hard" and "Spring".

Wire, Rods, Seamless and Brazed Tubes will be shipped commercially hard unless otherwise ordered, with the exception of Standard Pipe Sizes.

Copper Wire is commonly supplied annealed.

BRASS & COPPER SALES CO.

STANDARD LENGTHS

Lengths of standard stock items are clearly designated.

When orders from Mill are ordered cut to uniform specific lengths, there will be extra charges as shown in price book, except when the length specified is 2 feet or over no charge will be made for cutting if ordered "with end pieces included" or "with random lengths included". For lengths of less than 2 feet, no charge will be made if words "or cut to any multiple thereof" are added.

CUTTING STOCK MATERIAL

We have facilities to cut stock sizes for which a nominal charge will be made.



All sizes are in St. Louis stock unless indicated otherwise.

We are constantly adding new items to stock. A call from you for an item not stocked would be good cause for our considering adding it to stock.

Inquiries invited.

Carload service on all St. Louis district shipments.

Net prices on application.

Hot Rolled Plain
SOFT COPPER
In Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
8 oz.	30" x 60"	29	6.3 lbs.
10 oz.	30" x 60"	27	7.8 lbs.
12 oz.	30" x 60"	26	9.4 lbs.
12 oz.	30" x 96"	26	15.0 lbs.
14 oz.	18" x 96"	25	10.5 lbs.
14 oz.	20" x 96"	25	11.7 lbs.
14 oz.	24" x 96"	25	14.0 lbs.
14 oz.	28" x 96"	25	16.3 lbs.
14 oz.	30" x 60"	25	10.9 lbs.
14 oz.	30" x 96"	25	17.5 lbs.
14 oz.	36" x 96"	25	21.0 lbs.
16 oz.	12" x 96"	23	8.0 lbs.
16 oz.	15" x 96"	23	10.0 lbs.
16 oz.	16" x 96"	23	10.7 lbs.
16 oz.	18" x 96"	23	12.0 lbs.
16 oz.	20" x 96"	23	13.3 lbs.
16 oz.	24" x 96"	23	16.0 lbs.
16 oz.	26" x 96"	23	17.3 lbs.
16 oz.	28" x 96"	23	18.7 lbs.
16 oz.	30" x 60"	23	12.5 lbs.
16 oz.	30" x 96"	23	20.0 lbs.
16 oz.	36" x 96"	23	24.0 lbs.
18 oz.	30" x 96"	22	22.5 lbs.
18 oz.	36" x 96"	22	27.0 lbs.
20 oz.	30" x 60"	21	15.6 lbs.
20 oz.	30" x 96"	21	25.0 lbs.
24 oz.	30" x 60"	20	18.8 lbs.
24 oz.	30" x 96"	20	30.0 lbs.
24 oz.	36" x 96"	20	36.0 lbs.
32 oz.	30" x 60"	17	25.0 lbs.
32 oz.	30" x 96"	17	40.0 lbs.
32 oz.	36" x 96"	17	48.0 lbs.

Weight in Ounces to Sq. Ft.	Size of Sheet in Inches	Weight 30/60 Size (Pounds)	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
38 oz.	30" x 60"	30	16	30.0 lbs.
38 oz.	36" x 96"	30	16	57.6 lbs.
44 oz.	30" x 60"	35	14	35.0 lbs.
44 oz.	36" x 96"	35	14	67.2 lbs.
44 oz.	48" x 96"	35	14	89.6 lbs.
51 oz.	30" x 60"	40	13	40.0 lbs.
58 oz.	30" x 60"	45	12	45.0 lbs.
64 oz.	30" x 60"	50	11	50.0 lbs.
70 oz.	30" x 60"	55	10	55.0 lbs.
77 oz.	30" x 60"	60	10	60.0 lbs.
77 oz.	48" x 96"	60	10	153.6 lbs.
89 oz.	30" x 60"	70	8	70.0 lbs.
89 oz.	48" x 96"	70	8	179.2 lbs.
89 oz.	48" x 144"	70	8	268.8 lbs.
102 oz.	30" x 60"	80	7	80.0 lbs.
102 oz.	48" x 144"	80	7	307.2 lbs.
115 oz.	30" x 60"	90	6	90.0 lbs.
115 oz.	48" x 96"	90	6	230.4 lbs.
128 oz.	30" x 60"	100	5	100.0 lbs.
128 oz.	48" x 96"	100	5	256.0 lbs.
192 oz.	30" x 60"	150	2	150.0 lbs.

BRASS & COPPER SALES CO.

Cold Rolled Annealed

COPPER IN ROLLS

For Roof Flashings, Spinning, Stamping, Etc.

(Approx. 75 lbs. each)

WIDTH IN INCHES	WEIGHT IN OUNCES TO SQ. FT.	B&S GAUGE	APPROX. WEIGHT. PER LINEAL FOOT
14"	6 oz.	32	.438 lbs.
12"	8 oz.*	30	.50 lbs.
14"	8 oz.	30	.58 lbs.
12"	9 oz.	28	.563 lbs.
14"	10 oz.	27	.656 lbs.
12"	12 oz.	26	.75 lbs.
13"	12 oz.*	26	.813 lbs.
14"	12 oz.	26	.88 lbs.
9"	14 oz.	25	.656 lbs.
10"	14 oz.	25	.729 lbs.
12"	14 oz.	25	.875 lbs.
14"	14 oz.	25	1.021 lbs.
15"	14 oz.	25	1.09 lbs.
12"	15 oz.	24	.938 lbs.
5"	16 oz.	23	.416 lbs.
6"	16 oz.	23	.50 lbs.
8"	16 oz.	23	.67 lbs.
9"	16 oz.	23	.75 lbs.
10"	16 oz.	23	.833 lbs.
12"	16 oz.	23	1.00 lbs.
14"	16 oz.	23	1.167 lbs.
15"	16 oz.	23	1.25 lbs.
16"	16 oz.	23	1.334 lbs.
18"	16 oz.	23	1.50 lbs.
20"	16 oz.	23	1.67 lbs.
12"	18 oz.	22	1.125 lbs.
12"	24 oz.	20	1.5 lbs.

Cold Rolled STRIP COPPER in Flat Strips

Weight in Ounces to Sq. Ft.	Size of Strip in Inches	Approx. Weight per Strip
14 oz.	10" x 96"	5.8 lbs.
14 oz.	12" x 96"	7.0 lbs.
14 oz.	14" x 96"	8.2 lbs.
14 oz.	15" x 96"	8.8 lbs.
14 oz.	15" x 120"	10.9 lbs.
16 oz.	8" x 96"	5.3 lbs.
16 oz.	10" x 96"	6.7 lbs.
16 oz.	10" x 120"*	8.3 lbs.
16 oz.	12" x 96"	8.0 lbs.
16 oz.	12" x 120"*	10.0 lbs.
16 oz.	13" x 96"	8.7 lbs.
16 oz.	14" x 96"	9.3 lbs.
16 oz.	15" x 96"	10.0 lbs.
16 oz.	15" x 120"	12.5 lbs.
16 oz.	16" x 96"	10.7 lbs.
16 oz.	16" x 120"*	13.3 lbs.

* Carried in Chicago Stock only.

Plain - Half Hard
COLD ROLLED COPPER
in Flat Sheets

Weight in Ounces to Sq. Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
10 oz.	30" x 96"	27	12.5 lbs.
12 oz.	30" x 96"	26	15.0 lbs.
14 oz.	18" x 96"	25	10.5 lbs.
14 oz.	20" x 96"	25	11.7 lbs.
14 oz.	24" x 96"	25	14.0 lbs.
14 oz.	26" x 96"	25	15.2 lbs.
14 oz.	28" x 96"	25	16.3 lbs.
14 oz.	30" x 96"	25	17.5 lbs.
14 oz.	36" x 96"	25	21.0 lbs.
16 oz.	18" x 96"	23	12.0 lbs.
16 oz.	20" x 96"	23	13.3 lbs.
16 oz.	24" x 96"	23	16.0 lbs.
16 oz.	26" x 96"	23	17.3 lbs.
16 oz.	28" x 96"	23	18.7 lbs.
16 oz.	28" x 120"	23	23.3 lbs.
16 oz.	30" x 96"	23	20.0 lbs.
16 oz.	30" x 120"	23	25.0 lbs.
16 oz.	36" x 96"	23	24.0 lbs.
16 oz.	36" x 120"	23	30.0 lbs.
18 oz.	20" x 96"	22	15.0 lbs.
18 oz.	24" x 96"	22	18.0 lbs.
18 oz.	30" x 96"	22	22.5 lbs.
18 oz.	36" x 96"	22	27.0 lbs.
20 oz.	24" x 96"	21	20.0 lbs.
20 oz.	30" x 96"	21	25.0 lbs.
20 oz.	36" x 96"	21	30.0 lbs.
24 oz.	24" x 96"	20	24.0 lbs.
24 oz.	30" x 96"	20	30.0 lbs.
24 oz.	36" x 96"	20	36.0 lbs.
28 oz.	36" x 96"	19	42.0 lbs.
32 oz.	30" x 96"	17	40.0 lbs.
32 oz.	36" x 96"	17	48.0 lbs.
36 oz.	30" x 96"	16	45.0 lbs.
36 oz.	36" x 96"	16	54.0 lbs.
38 oz.	36" x 96"	16	57.6 lbs.
44 oz.	36" x 96"	14	67.2 lbs.

Hard Spring
BRUSH COPPER
Rolls—Approx. 75 lbs.

B&S Gauge	Decimal Equivalent	Width	Approx. Weight per foot
24	.0201"	12"	15 oz.
26	.0159"	12"	12 oz.
28	.0126"	12"	9 oz.
30	.0100"	12"	7 oz.
32	.0079"	12"	6 oz.
34	.0063"	12"	4-5 oz.
36	.0050"	12"	4 oz.

BRASS & COPPER SALES CO.

Cold Rolled TINNED ONE SIDE COPPER in Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
12 oz.	30" x 60"*	26	9.375 lbs.
14 oz.	30" x 60"*	25	10.938 lbs.
14 oz.	30" x 96"	25	17.5 lbs.
14 oz.	36" x 96"	25	21.0 lbs.
16 oz.	24" x 96"	23	16.0 lbs.
16 oz.	30" x 60"*	23	12.5 lbs.
16 oz.	30" x 96"	23	20.0 lbs.
16 oz.	36" x 96"	23	24.0 lbs.
18 oz.	36" x 96"	22	27.0 lbs.
20 oz.	30" x 60"*	21	15.5 lbs.
20 oz.	30" x 96"	21	25.0 lbs.
20 oz.	36" x 96"	21	30.0 lbs.
24 oz.	24" x 96"*	20	24.0 lbs.
24 oz.	30" x 96"	20	30.0 lbs.
24 oz.	36" x 96"	20	36.0 lbs.
26 oz.	30" x 60"*	19	20.0 lbs.
26 oz.	36" x 96"*	19	39.0 lbs.
32 oz.	30" x 60"*	17	25.0 lbs.
32 oz.	24" x 96"*	17	32.0 lbs.
32 oz.	30" x 96"	17	40.0 lbs.
32 oz.	36" x 96"	17	48.0 lbs.
38 oz.	30" x 96"	16	48.0 lbs.

Cold Rolled TINNED TWO SIDES COPPER in Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet.
20 oz.	36" x 96"	21	30.0 lbs.
24 oz.	24" x 96"*	20	24.0 lbs.

Cold Rolled POLISHED ONE SIDE COPPER in Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet.
14 oz.	30" x 60"*	25	10.94 lbs.
14 oz.	30" x 96"*	25	17.5 lbs.
14 oz.	36" x 96"*	25	21.0 lbs.
16 oz.	24" x 96"*	23	16.0 lbs.
16 oz.	30" x 60"*	23	12.5 lbs.
16 oz.	30" x 96"	23	20.0 lbs.
16 oz.	36" x 96"	23	24.0 lbs.
18 oz.	36" x 96"	22	27.0 lbs.
20 oz.	30" x 60"*	21	15.5 lbs.
20 oz.	36" x 96"	21	30.0 lbs.
26 oz.	30" x 60"*	20	20.0 lbs.

* Carried in Chicago Stock only.

LEAD COATED COPPER*

16 oz. 30" x 96" and 16 oz. 36" x 96" in Soft and Cold Rolled Tempers with Heavy or Extra Heavy Lead Coatings.

COPPER BOTTOMS-TINNED ONE SIDE

No. 8-14 oz. oval - 12 $\frac{1}{2}$ " x 23 1/4"
No. 9-14 oz. oval - 13 1/4" x 23 3/4"

Cold Rolled

POLISHED AND TINNED COPPER in Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
12 oz.	30" x 60"*	26	9.4 lbs.
14 oz.	14" x 60"	25	5.1 lbs.
14 oz.	30" x 60"*	25	10.9 lbs.
14 oz.	30" x 96"	25	17.5 lbs.
16 oz.	24" x 96"*	23	16.0 lbs.
16 oz.	30" x 60"*	23	12.5 lbs.
16 oz.	30" x 96"*	23	20.0 lbs.
16 oz.	36" x 96"*	23	24.0 lbs.
20 oz.	30" x 60"*	21	15.5 lbs.
20 oz.	36" x 96"*	21	30.0 lbs.
22 oz.	36" x 96"*	21	33.0 lbs.
24 oz.	36" x 96"*	20	36.0 lbs.
26 oz.	30" x 60"*	20	20.0 lbs.
32 oz.	30" x 60"*	17	25.0 lbs.

Cold Rolled

NICKEL PLATED AND POLISHED COPPER in Flat Sheets

Weight in Ounces to Sq.Ft.	Size of Sheet in Inches	Nearest Equivalent B&S Ga.	Approx. Weight per Sheet
16 oz.	30" x 96"	23	20.0 lbs.

Cold Rolled

HALF HARD COPPER in Flat Sheets—8 Ft. and Shorts

B&S Gauge	Decimal Equivalent	Width	Approx. Weight per foot.
1/4"	.250"	12"	12.0 lbs.
8	.1285"	12"	5.9 lbs.
10	.1019"	12"	4.7 lbs.
12	.0808"	12"	3.7 lbs.
14	.0640"	12"	2.9 lbs.
16	.0508"	12"	2.4 lbs.
18	.0403"	12"	1.8 lbs.
20	.0319"	12"	1.5 lbs.
22	.0253"	12"	1.2 lbs.

* Carried in Chicago stock only.

Nickel Silver Sheets and Rolls from New York Stock.

BRASS & COPPER SALES CO.

SOFT BRASS													8 Ft. and Ends						
Width in Inches		THICKNESS IN B&S GAUGE																	
		8	10	11	12	14	15	16	17	18	19	20							
WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES																			
10 12	5.7	4.5	4.0	3.6	2.3 2.8	2.5	2.3	2.0*	1.8*	1.6*	1.4*								
SOFT BRASS																			
70-80 Pounds																			
Width in Inches		THICKNESS IN B&S GAUGE																	
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	36
WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES																			
6	1.13	...	1.19	...	.71	...	.57	...	...	...	...	...	...	...	...	...	...	...	...
8	1.86	...	...	...	.95*	...	.75*	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	1.25	...	.95	...	...	...	...	...	...	...	...	...	...	...	...
12	...	2.01	1.79	1.59	1.42	1.26	1.13	1.00	.83	.75	.80	.71	.63	.56	.50*	.45	.40*	.36	.22
14	...	...	2.10	...	1.66	...	1.32	1.16*	1.06	1.06	.94*	.83	...	.66*	.58*	.56*	...	...	...
16	3.00	...	...	...	1.90	...	1.50	...	...	...	...	...	...	.76	.66*	.56*	...	...	...
18	...	...	...	...	2.13	...	1.70	...	1.35	...	...	1.06	...	.84	.75*	...	...	...	...
20	...	...	...	...	2.50	...	1.89	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	2.67*	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	2.84	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Carried in Chicago Stock only.
Other sizes can be obtained from Mill or New York Stock.

GAUGE IN INCHES

HALF HARD BRASS

THICKNESS IN B&S GAUGE

WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES

We can cut these items to any size. Other sizes can be obtained from Mill or New York Stock.

4600

70-80 Pounds

HALF HARD BRASS

THICKNESS IN B&S GAUGE

Width in Inches	20	22	23	24	25	26	28	30
WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES								
8	.93	...	...	...	...	...	...	...
10	1.20	.93	...	.75	...	...	...	...
12	1.42	1.12	1.00*	.90	.79	.71	.56	.45
14	1.66*	1.31	1.16*	1.10*	...	.83*	...	...

HALF HARD SLIT BRASS IN COILS

WIDTH IN INCHES

B&S Gauge	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2
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WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES

1819	.2330
20	.03	.04	.06	.07	.09	.10	.11	.14	.18	.21	.23
22	...	...	.05	...	.07	...	.09	...	...	...	...

In Flat Sheets

SPRING BRASS

8 Ft. and Ends

THICKNESS IN B&S GAUGE

Width in Inches	14	15	16	18
WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES				
12	2.84	2.53*	2.25	1.79

* Carried in Chicago Stock only.

In Rolls

SPRING BRASS

70-80 Pounds

Width in Inches	THICKNESS IN B&S GAUGE									
	20	22	24	26	28	30	32	34	36	
	WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES									
8	.95	.75	.60	.47	.38	.30	.24	.19	.15	
12	1.42*	...	.89*	...	...	...	...	...	...
* Carried in Chicago Stock only.										

In Flat Sheets

HALF HARD COMMERCIAL BRONZE

8 ft. and Ends

Width in Inches	THICKNESS IN B&S GAUGE									
	1/4	3/16	8	10	11	12	14	16	18	20
	WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES									
6	3.0*	2.5*	...	1.9*	1.5*	1.2*	...	...
8	...	6.0*	4.5*	...	3.0*	...	2.0	1.6	1.3*	...
10	3.7*	...	3.2*	...	2.5*	2.0	1.7*	...
12	11.8*	8.9*	5.2*	...	4.4	...	3.0	2.3	1.9	...
14	5.9	...	...	4.4*	3.5*	2.8*	2.1	...
16	7.5*	...	5.0*	4.8	4.0	3.2	...	...
18	4.5*	...	...	...
20	9.0*	...	6.6*	...	5.0*	4.0*	...	...
24	10.4*	...	7.4*	...	6.0*	...	...	...
24	23.6*	17.8*	11.8*	10.0*	8.8*	7.6*	6.0*	4.8	...	...
30	15.6*	...	11.0*	...	7.5	...	...	3.8*

Also Stock 24" x 48" - 1/8" ga Commercial Bronze Sheet. * Carried in New York Stock only.

SHIM BRASS IN ROLLS

4" wide by .002" - .003" - .005".

Special mixtures such as Dead Soft and Half Hard Rich Low Brass, Dead Soft Gilding, Oreide and Commercial Bronze carried in Chicago Stock.

PHONE
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4600

SPRING PHOSPHOR BRONZE
In Sheets and Rolls

B&S Gauge	Decimal Equivalent	Width	Approx. Weight Per Lineal Foot
14	.064"	6" Sheets	1.45 lbs.
16	.050"	6" Sheets	1.15 lbs.
18	.040"	6" Sheets	.90 lbs.
20*	.032"	6" Sheets	.72 lbs.
20	.032"	6" Rolls	.72 lbs.
22	.025"	6" Rolls	.58 lbs.
24	.020"	6" Rolls	.46 lbs.
26	.016"	6" Rolls	.36 lbs.
28	.012"	6" Rolls	.29 lbs.
30	.010"	6" Rolls	.23 lbs.
36*	.005"	6" Rolls	.11 lbs.

ENGRAVERS' BRASS
Half Hard—Sawed Ends and Sides

Width in Inches	THICKNESS					
	5/8"	1/2"	7/16"	3/8"	5/16"	1/4"
	WEIGHT PER LINEAL FOOT					
6	8.3*	7.0*	...
8	11.0*	...	...
10	13.8	11.6*	...
12	...	22.2	19.4*	16.6	13.8	8.4
14	32.3	...	...	19.4	16.2*	9.8*
16	22.1*	18.5*	11.2*

* Carried in Chicago Stock only.

Free Cutting-Round-Hexagon-Square-Half Round
BRASS ROD
12 Ft. and Shorts

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Size in Inches	WEIGHT IN POUNDS PER FOOT--STOCK SIZES			
	Round	Hexagon	Square	Half Round
3/32	.027	...	...	...
1/8	.045	...	.058	...
5/32	.073	...	...	...
3/16	.102	.113	.130	...
7/32	.140	...	...	...
1/4	.181	.202	.231	.09
9/32	.228	...	...	...
5/16	.282	.308	.361	...
11/32	.340	...	...	...
3/8	.407	.442	.519	.20
13/32	.465	...	...	...
7/16	.554	.617	.706	...
15/32	.560*	...	...	...
1/2	.724	.805	.922	.32
17/32	.82*	...	...	...
9/16	.916	1.01	1.17	...
5/8	1.132	1.26	1.44	.57
11/16	1.369	1.52	1.74	...
23/32	1.375*	...	...	...
3/4	1.630	1.81	2.08	.82
13/16	1.913	2.125	...	...
7/8	2.218	2.47	2.82	...
15/16	2.546	2.83	...	...
1	2.897	3.22	3.69	1.45
1 1/16	3.271	3.64	...	...
1 1/8	3.667	4.07	4.67	...
1 3/16	4.085	4.55	...	...
1 1/4	4.527	5.03	5.76	...
1 5/16	4.991	5.55	...	...
1 3/8	5.477	6.09	...	...
1 7/16	5.987	...	...	...
1 1/2	6.519	7.25	8.3	...
1 9/16	7.073	...	...	...
1 5/8	7.650	8.50	...	...
1 11/16	8.250	...	...	...
1 3/4	8.873	9.86	11.30	...
1 13/16	9.518	...	...	...
1 7/8	10.19	11.47	...	...
1 15/16	10.88	...	...	...
2	11.59	12.90	14.76	...
2 1/16	12.32	...	...	...
2 1/8	13.08	...	...	...
2 3/16	13.86	...	...	...
2 1/4	14.67	...	...	...
2 5/16	15.49	...	...	...
2 3/8	16.34	...	...	...
2 7/16	17.21	...	...	...
2 1/2	18.11	...	...	...
2 3/4	21.91	...	...	...
3	26.08	...	...	...

* Carried in Chicago Stock only.

See page 16 for Half Oval Brass Rod.

**Half Hard Rectangular-Drawn and Sawed
BRASS BAR
14 Ft. and Shorts**

Thickness in Inches	WIDTH IN INCHES																4	
	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4	2 1/2		3
WEIGHT PER LINEAL FOOT--STOCK SIZES																		
1/16	.057	...	.085	.11	.143	.17	.20	.22	.25	2.8	.31	.34	.39	.45	...	...	...	...
3/32	.084	...	.129	.178	.215	.256	.30	.35	...	.43	...	.51	...	.71	...	...	...	...
1/8	.119	.145	.17	.238	.286	.342	.40	.47	.51	.57	...	.68	.80	.95	1.08	1.20	1.37	1.9
3/16	...	...	.26	.357	.429	.513	...	.71	...	.87	...	1.17	1.20	1.4	...	1.74	2.33	...
1/4	...	...	.342	.476	.572	.684	.80	.95	...	1.14	...	1.37	1.64	1.9	...	2.28	2.74	3.8
5/16	...	...	...	.56	...	.85	...	1.19	...	...	...	1.79	...	2.39	...	...	...	...
3/8	...	...	...	.714	.858	1.02	1.2	1.43	...	1.64	...	2.05	2.51	2.87	...	...	...	...
1/2	...	...	...	...	...	1.36	...	1.9	...	2.29	...	2.73	...	3.81	...	4.57	5.47	...
3/4	...	...	...	...	...	...	...	2.86	...	...	...	4.30	...	5.72	...	...	...	...

Rectangular Half Hard Brass in any of above thicknesses and in Special Widths up to 12" wide can be sawed from Stock in hand. Other sizes from Mill or New York Stock.

If you do not find what you want in this Booklet, please or write us. We may have added it to our stock or, if not, a request from you would be good reason for us to consider putting the item in stock.

See page 12 for our complete stock of Engravers' Sheet Brass, which is particularly adapted for engraving.

ROUND ROME BRONZE ROD
For Shafts-Bearings-Bushings-Etc.
12 Ft. and Shorts

Size in Inches	Weight in pounds per foot	Size in Inches	Weight in pounds per foot	Size in Inches	Weight in pounds per foot
1/4	.176	3/4	1.610	1 3/16	4.085
5/16	.279	13/16	1.913	1 1/4	4.471
3/8	.402	7/8	2.191	1 5/16	4.991
7/16	.547	15/16	2.527	1 3/8	5.410
1/2	.715	1	2.862	1 1/2	6.438
9/16	.905	1 1/16	3.271	1 3/4	8.763
5/8	1.118	1 1/8	3.622	2	11.45
1 1/16	1.369				

Rome Weldtast
BRONZE WELDING ROD
In 36" Lengths

Size in Inches	Weight in pounds per length
1/8	.135
3/16	.300
1/4	.534

BRASS ANGLES
12 Ft. and Shorts—Stock Sizes

Size in Inches	B&S Gauge	Weight in pounds per foot
1/2x1/2	18	.15
5/8x5/8	16	.237
3/4x3/4	16	.284
1 x 1	16	.375
1 x 1	8	.916

See next page for Bronze Angles and Channels.

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HALF OVAL BRASS ROD

Size in Inches	Weight in pounds per foot
3/32x3/8	.145
1/8 x1/2	.168
5/32x5/8	.258
3/16x3/4	.369

BRONZE ANGLES

12 ft. and Short-Stock Sizes

Size in Inches	B&S Gauge	Weight in pounds per foot
1x1	8	.92
1 1/4x1 1/4	8	1.17
1 1/2x1 1/2	8	1.38

BRONZE CHANNELS

12 ft. and Short-Stock Sizes

Size in Inches	B&S Gauge	Weight in pounds per foot
3/8x3/4x3/8	10	.50
1/2x1x1/2	12	.58
1/2x1 1/4x1/2	12	.67
1/2x1 1/2x1/2	12	.75

Other sizes of Brass and Bronze Angles and Channels from Mill or New York Stock. For Brass Angles, see page 15.

COMMERCIAL BRONZE ROD

Round and Square

Size in Inches	WEIGHT IN POUNDS PER FOOT-- STOCK SIZES	
	Round	Square
1/8	.48*	..
3/16	.105*	.136*
1/4	.188	.230
5/16	.294	.372*
3/8	.425	.527
7/16	.575*	..
1/2	.754	.968
9/16	.958*	..
5/8	1.180	1.49
3/4	1.700	2.19*
7/8	2.302*	..
1	2.984*	3.84*
1 1/4	4.692*	..

* Carried in New York Stock only.



A part of Rod and Tube Stocks, Sheet Copper at the left.

**Hard Rectangular Drawn
COMMERCIAL BRONZE BAR**
10-12 ft. lengths

Size in Inches	Weight in pounds per Foot	Size in Inches	Weight in pounds per foot	Size in Inches	Weight in pounds per foot
1/8x3/8	.19	3/16x1 1/2	1.12*	3/8x5/8	.94*
1/8x1/2	.25	3/16x2	1.50*	3/8x3/4	1.12
1/8x5/8	.31*	1/4x3/8	.37*	3/8x7/8	1.31*
1/8x3/4	.37	1/4x1/2	.50	3/8x1 1/4	1.50
1/8x1	.50	1/4x5/8	.62*	3/8x1 1/2	1.87*
1/8x1 1/4	.62*	1/4x3/4	.75		2.25*
1/8x1 1/2	.75*	1/4x1	1.00		3.00*
1/8x2	1.00*	1/4x1 1/4	1.25		1.25*
3/16x3/8	.29*	1/4x1 1/2	1.50		1.50*
3/16x1/2	.37	1/4x2	2.00*		2.00*
3/16x5/8	.45*	5/16x1/2	.63*		2.50*
3/16x3/4	.56	5/16x5/8	.79*		3.00*
3/16x7/8	.66*	5/16x3/4	.95*		4.00*
3/16x1	.75	5/16x1	1.25*		3.12*
3/16x1 1/4	.94	3/8x1/2	.75*		4.50*

* Carried in New York Stock only.

Other sizes can be shipped from the mill.

See page 11 for our stock of Commercial Sheet Bronze. Also page 16 for Commercial Bronze Angles and Channels, and page 16 for Round and Square Commercial Bronze Rod.

Above sizes can be cut to any lengths.

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BRASS & COPPER SALES CO.

Hard Drawn-Round-Square COPPER ROD 12 Ft. and Shorts

Size in Inches	WEIGHT IN POUNDS	
	PER FOOT--STOCK	
	SIZES	
	Round	Square
1/4	.189	.242
5/16	.296	...
3/8	.426	.542
1/2	.757	.964
5/8	1.182	1.51
3/4	1.703	2.17
7/8	2.318	2.95
1	3.027	3.86
1 1/8	3.831	...
1 1/4	4.723	6.01
1 5/16	5.24	...
1 3/8	5.723	...
1 1/2	6.811	8.67
1 5/8	7.99	...
1 3/4	9.27	...
2	12.11	15.42

Items of:

ANODES
COPPER COMMUTATOR BAR
COMMUTATOR SEGMENTS
EXTRUDED SHAPES
and
SPECIAL SIZES

can be shipped from the mill.

See page 19 for Stock sizes of Rectangular Bus Bar
Copper.

Rectangular-Bus Bar
HARD DRAWN COPPER BAR
 14 Ft. and Shorts

Thickness in Inches	WIDTH IN INCHES												
	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
WEIGHT IN POUNDS PER LINEAL FOOT--STOCK SIZES													
1/16	.09	.12	.15	.18	.21	.24	.45	.36	...	...	...	...	...
3/32	...	.18	.22	.27	...	.36	.45	...	...	...	...	...	...
1/8	.18	.24	.30	.36	.42	.48	.60	.72	.84	.96	...	...	...
3/16	...	.36	...	.54	...	.72	.91	1.09	1.27	1.45	1.81	1.93	...
1/4	...	.48	.60	.72	.84	.97	1.21	1.45	1.69	1.93	2.17	2.41	...
5/16	...	...	...	...	...	1.21	...	...	...	2.41	...	...	...
3/8	...	...	...	.98	...	1.45	1.81	2.17	2.53	2.89	3.62	4.34	...
1/2	...	...	...	...	...	1.92	...	2.84	3.37	3.86	4.81	5.79	...
3/4	...	...	...	...	...	...	...	...	...	5.79	...	...	...

Other sizes from Mill or New York Stock. We can saw 1/16", 3/32", 1/8", and 1/4" Bars in special widths up to 12" wide and 8 feet long from stock on hand.

See page 23 for our stock of Dehydrated and Sealed Soft Copper Tubing for Electrical Refrigeration installations. This tubing is specially drawn, annealed and then thoroughly cleaned, dried, and sealed.

Also see pages 37 and 38 for S.A.F. Flared Tube and Compression Fittings for use with this tubing.

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BRASS & COPPER SALES CO.

IRON PIPE SIZES

Seamless drawn brass and copper tubing to correspond to the outside measurements of iron pipe. Variations from these weights must be expected in practice

Standard Pipe Size	Diameter Inches		Thick- ness Inches Wall	Pounds Per Foot		
	Outside	Inside		Brass	Red Brass	Copper
$\frac{1}{8}$	.405	.281	.0020	.248	.253	.259
$\frac{1}{4}$	.540	.375	.0023	.437	.450	.460
$\frac{3}{8}$	.675	.494	.0025	.612	.630	.643
$\frac{1}{2}$	.840	.625	.0075	.911	.938	.957
$\frac{3}{4}$	1.050	.822	.0140	1.24	1.27	1.30
1	1.315	1.062	.0165	1.74	1.79	1.83
$1\frac{1}{4}$	1.660	1.368	.0160	2.36	2.65	2.69
$1\frac{1}{2}$	1.900	1.600	.0150	3.04	3.13	3.20
2	2.375	2.062	.0155	4.02	4.14	4.23
$2\frac{1}{2}$	2.875	2.500	.0175	5.83	6.00	6.14
3	3.500	3.062	.0190	8.31	8.56	8.75
$3\frac{1}{2}$	4.000	3.500	.0200	10.85	11.17	11.41
4	4.500	4.000	.0200	12.99	12.66	12.94
$4\frac{1}{2}$	5.000	4.500	.0200	15.74	14.15	14.46
5	5.563	5.062	.0205	15.40	15.85	16.21
6	6.625	6.125	.0200	18.44	18.99	19.41
7	7.625	7.062	.0215	23.92	24.63	25.17
8	8.625	8.000	.0125	30.05	30.93	31.63

EXTRA HEAVY PIPE SIZES

Seamless brass and copper tubing drawn to correspond to the outside measurement of extra heavy iron pipe. Variations from these weights must be expected in practice

Standard Pipe Size	Diameter Inches		Thick- ness Inches Wall	Pounds Per Foot		
	Outside	Inside		Brass	Red Brass	Copper
$\frac{1}{8}$	.405	.205	.100	.353	.363	.371
$\frac{1}{4}$	.540	.294	.125	.593	.611	.624
$\frac{3}{8}$	.675	.421	.127	.805	.829	.847
$\frac{1}{2}$	.840	.542	.149	1.19	1.23	1.25
$\frac{3}{4}$	1.050	.736	.157	1.62	1.67	1.71
1	1.315	.951	.182	2.39	2.46	2.51
$1\frac{1}{4}$	1.660	1.272	.194	3.30	3.39	3.46
$1\frac{1}{2}$	1.900	1.494	.203	3.99	4.10	4.19
2	2.375	1.953	.221	5.51	5.67	5.79
$2\frac{1}{2}$	2.875	2.315	.280	8.41	8.66	8.84
3	3.500	2.892	.304	11.24	11.57	11.82
$3\frac{1}{2}$	4.000	3.358	.321	13.67	14.07	14.37
4	4.500	3.818	.341	16.41	16.89	17.25
$4\frac{1}{2}$	5.000	4.250	.375	20.07	20.66	21.10
5	5.563	4.813	.375	22.52	23.18	23.67
6	6.625	5.751	.437	31.32	32.21	32.93
7	7.625	6.625	.500	41.23	42.43	43.34
8	8.625	7.625	.500	47.02	48.39	49.42

Sizes above single line for immediate shipment from St. Louis.

Sizes above double lines for shipment from Chicago stock.

We carry a full line of Brass Pipe Fittings, Nipples, and Unions.

COPPER SERVICE PIPE

Nom- inal Size	Exact O. D.	Permitted Tolerance	Gauge B. W. G.	Permitted Tolerance	Weight Per Ft.	Permitted Tolerance	Test Press. Lbs. per Sq. In.
$\frac{1}{2}$ "	.625"	Plus or .0025" Minus	18	Plus or .0025" Minus	.343 lbs.	Plus or 5% Minus	1140
$\frac{3}{4}$ "	.875"	Plus or .003" Minus	16	Plus or .003" Minus	.640 lbs.	Plus or 5% Minus	1040
1"	1.125"	Plus or .003" Minus	16	Plus or .003" Minus	.838 lbs.	Plus or 5% Minus	780
$1\frac{1}{4}$ "	1.375"	Plus or .0035" Minus	16	Plus or .003" Minus	1.04 lbs.	Plus or 5% Minus	630
$1\frac{1}{2}$ "	1.625"	Plus or .004" Minus	15	Plus or .0035" Minus	1.36 lbs.	Plus or 5% Minus	580
2"	2.125"	Plus or .005" Minus	14	Plus or .004" Minus	2.06 lbs.	Plus or 5% Minus	520

All sizes in St. Louis Stock

Underground and House Fittings for use with Service Pipe—Full line in stock.

HARD DRAWN SEAMLESS BRASS TUBE

14 Ft. and Shorts

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Outside Diameter in Inches	Brown and Sharpe Gauge	Weight in Pounds Per Foot
1/8	22	.029
3/16	20	.057
1/4	14	.13
1/4	18	.08
1/4	20	.08
1/4	22	.06
5/16	14	.19
5/16	18	.13
3/8	14	.23
3/8	16	.18
3/8	18	.15
7/16	14	.29
7/16	18	.19
1/2	14	.32
1/2	16	.26
9/16	14	.38
5/8	8	.70
5/8	14	.42
5/8	16	.32
3/4	8	.87
3/4	14	.51
3/4	16	.40
13/16	12*	.63
13/16	14	.55
7/8	8	1.04
7/8	14	.61
7/8	16	.47
1	8	1.22
1	14	.70
1	16	.54
1 1/8	8	1.40
1 1/8	14	.79
1 1/4	8	1.57
1 1/4	14	.88
1 3/8	8	1.75
1 3/8	14	.98
1 1/2	8	1.92
1 1/2	14	1.07
1 5/8	8*	2.32
1 5/8	14	1.17
1 3/4	8	2.27
1 3/4	14	1.26
1 7/8	14	1.36
2	8	2.61
2	14	1.45
2 1/8	14*	1.55
2 1/4	8	2.96
2 1/4	14	1.64
2 3/8	14*	1.73
2 1/2	8	3.31
2 1/2	14	1.82
2 5/8	14*	1.92
2 3/4	8	3.66
2 3/4	14	2.01
3	8	4.01
3	14	2.20
3 1/4	8	4.35
3 1/2	8	4.70
3 1/2	14	2.58
3 3/4	8	5.05
4	8	5.40
4	14	2.96

* Carried in Chicago Stock only.

BRASS & COPPER SALES CO.

HARD DRAWN SEAMLESS BRASS TUBE

14 Ft. and Shorts

Outside Diameter in Inches	Brown and Sharpe Gauge	Weight in Pounds Per Foot
4 1/4	8	5.75
4 1/2	8	6.09
4 3/4	8	6.44
5	8	6.78
5 1/4	8	7.14
5 1/2	8	7.48
5 3/4	8	7.83
6	8	8.18
6 1/4	8	8.52
6 1/2	8	8.87
6 3/4	8	10.28
7	8	10.66

SOFT SEAMLESS BRASS TUBE

14 ft. Shorts-Straight lengths

Outside Diameter in Inches	Brown and Sharpe Gauge	Weight in Pounds per Foot
5/16	18	.13
3/8	18	.15
7/16	18	.19
1/2	18	.22

HARD DRAWN SEAMLESS COPPER TUBE

14 Ft. and Shorts

Outside Diameter in Inches	Brown and Sharpe Gauge	Weight in Pounds per Foot
1/4	14	.14
3/8	14	.24
1/2	14	.34
5/8	14	.44
3/4	14	.54
7/8	14	.64
1	8▲	1.28
1	14	.74
1 1/8	14	.83
1 1/4	8▲	1.64
1 1/4	14	.92
1 1/2	8▲	2.04
1 1/2	14	1.12
1 1/2	16	.86
1 3/4	8▲	2.4
2	8■	2.76
2	8▲	2.76
2	14	1.52
2	16	1.15
2 1/4	8■	3.11
2 1/4	8▲	3.11
2 1/4	14*	1.72
2 1/2	14	1.91
3	14	2.31

* Carried in Chicago Stock only.

▲ Carried in 22 ft. lengths.

■ Carried in 18 ft. lengths.

SOFT SEAMLESS COPPER TUBE

Outside Diameter in Inches	Gauge	Lengths	Weights in Pounds per Foot
1/8	20 B&S	100 ft. coils	.034
3/16	20 B&S	50 ft. coils	.057
1/4	20 B&S	50 ft. coils	.08
5/16	20 B&S	30-40 ft. coils	.104
3/8	14 Stubs	20 ft. straight	.30
3/8	16 Stubs	35 ft. coils	.24
3/8	20 B&S	30-50 ft. coils	.14
1/2	14 Stubs	20 ft. straight	.43
1/2	16 Stubs	35 ft. coils	.34
1/2	20 B&S	30-50 ft. coils	.18
5/8	11 Stubs	20 ft. straight	.74
5/8	11 Stubs	35 ft. coils	.74
5/8	14 Stubs	35 ft. coils	.55
5/8	16 Stubs	35 ft. coils	.44
5/8	20 B&S	30-40 Ft. coils	.23
3/4	11 Stubs	20 ft. straight	.91
3/4	20 B&S	25 ft. coils	.27
1	20 B&S	14 ft. straight	.38
1 1/4	20 B&S	14 ft. straight	.47
1 1/2	20 B&S	14 ft. straight	.57
1 3/4	20 B&S	14 Ft. straight	.67
2	20 B&S	14 ft. straight	.76

We carry a complete line of Compression and Flared Tube fittings for Tubing up to 3/4" outside diameter.

REFRIGERATOR COPPER TUBE
(Deoxidized and Dehydrated)
20 Stubs Gauge-Sealed Ends

Outside Diameter	Weight per Foot	Average Feet per Lb.	Lengths
1/4"	.088 lbs.	11	50 ft. ccils
3/8"	.143 lbs.	7	35-50 ft.coils
1/2"	.197 lbs.	5	30-50 ft.coils

We carry a complete line of forged brass refrigerator fittings and solderless compression fittings.

Plain Round
BRAZED BRASS TUBE
Soft Temper

B&S Gauge	OUTSIDE DIAMETER IN INCHES			
	5/16	3/8	7/16	1/2
	WEIGHT IN POUNDS PER FOOT--STOCK SIZES			
18	.120	.158	.180	.217

Prices on Brass or Admiralty Metal Condensor Tubes quoted on application. Prompt shipment can be made from mill.

BRASS & COPPER SALES CO.

Plain Round BRAZED BRASS TUBE Half Hard Temper 14 Ft. and Shorts

Outside Diameter in Inches	Brown and Sharpe Gauge		
	18	20	22
	Weight in Pounds per Foot--Stock Sizes		
1/8	...	...	.029
3/16	...	.057	...
1/4	.097	.80	.064
5/16	.120	.104	...
3/8	.158	.126	.102
7/16	.180	.15	...
1/2	.217	.17	.139
9/16	.240	.20	.156*
5/8	.276	.22	.174
11/16	.300	.24	...
3/4	.335	.26	.211
13/16	...	.29	...
7/8	.390	.31	.248
1	.453	.36	.285
1 1/8	.520	.40	.321*
1 1/4	.571	.45	.358*
1 3/8	.620	.50	...
1 1/2	.689	.54	...
1 5/8	.740	...	...
1 3/4	.790	.63	...
2	.910	.73	...
2 1/2	1.14*	...	...

Also 5/8" O.D.-24 B&S in Chicago Stock.

Plain Square BRAZED BRASS TUBE Half Hard Temper 14 Ft. and Shorts

Size in Inches	BROWN AND SHARPE GAUGE	
	18	20
	WEIGHT IN POUNDS PER FOOT--STOCK SIZES	
1/4	...	.10
5/16	.15*	.13
3/8	.20*	.16
1/2	...	.21
5/8	...	.28
3/4	...	.33
1	...	.45
1 1/4	.70	.56*
1 1/2	.85	.68*
1 3/4	.99	...
2	1.14*	...

* Carried in Chicago Stock only.
Other sizes from New York Stock.

COMMERCIAL BRONZE TUBES*

- ROUND* - Sizes from 3/8" to 1" O.D., inclusive - 16 B&S
Gauge - 12-14 ft. lengths .
Sizes from 1 1/4" to 3" O.D., inclusive - 14
B&S Gauge - 16 ft. lengths.
SQUARE* - Sizes from 3/8" to 3" O.D., inclusive, - 14
B&S. Gauge - 12-14 ft. lengths.
RECTANGULAR* - Following sizes in 14 B&S Gauge - 12-14 ft.
lengths:

3/8"x3/4"	1/2"x1"	5/8"x1 1/4"
3/8"x1"	1/2"x1 1/4"	3/4"x1 1/2"
3/8"x1 1/4"		1"x2"
1/2"x3/4"		1/2"x 3"

* Carried in New York Stock only. Shipment can be made at once.

We represent the Rome Brass and Copper Co. who manufacture at Rome, N. Y. a complete range of products in BRASS, BRONZE and COPPER including—

SHEETS
STRIPS
RODS
BRAZED TUBE
TAPER TUBE
EXTRUDED SHAPES
ANGLES and CHANNELS
"ROME" BRASS PIPE
" " COPPER SERVICE TUBING
" " PIPE
SEAMLESS TUBE (All Copper Tubes Deoxidized)
DEHYDRATED TUBES
REFRIGERATOR TUBES
COPPER BOTTOMS
COPPER ANODES
BUS BAR
COMMUTATOR BAR
COMMUTATOR SEGMENTS
MOULDING and DOOR RAIL
RIVETS and BURS

We will gladly quote net prices on any of the above items. Telephone or mail us your inquiries.

BRASS & COPPER SALES CO.

2817 LACLEDE AVE.

ST. LOUIS

Bronze Bars and Bushings for Machinery and Auto Repairs

Table of Solid and Cored Bars

Outside Diameter	Inside Diameters and Weights of Cored Bars																Solid Bars	
	1/2	2/4	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	Diameter	Weight
1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	1/2	.8
1 1/8	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.2	8.9	9.6	10.3	11.0	11.7	12.4	13.1	13.8	5/8	1.2
1 1/4	4.1	4.9	5.7	6.5	7.3	8.1	8.9	9.7	10.5	11.3	12.1	12.9	13.7	14.5	15.3	16.1	3/4	1.8
1 3/8	5.1	6.0	6.9	7.8	8.7	9.6	10.5	11.4	12.3	13.2	14.1	15.0	15.9	16.8	17.7	18.6	7/8	2.4
1 1/2	6.2	7.2	8.2	9.2	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	1	3.1
1 5/8	7.4	8.5	9.6	10.7	11.8	12.9	14.0	15.1	16.2	17.3	18.4	19.5	20.6	21.7	22.8	23.9	1 1/8	3.9
1 3/4	8.7	9.9	11.1	12.3	13.5	14.7	15.9	17.1	18.3	19.5	20.7	21.9	23.1	24.3	25.5	26.7	1 1/4	4.9
1 7/8	10.1	11.4	12.7	14.0	15.3	16.6	17.9	19.2	20.5	21.8	23.1	24.4	25.7	27.0	28.3	29.6	1 3/8	5.9
2	11.6	13.0	14.4	15.8	17.2	18.6	20.0	21.4	22.8	24.2	25.6	27.0	28.4	29.8	31.2	32.6	1 1/2	7.0
2 1/8	13.3	14.8	16.3	17.8	19.3	20.8	22.3	23.8	25.3	26.8	28.3	29.8	31.3	32.8	34.3	35.8	1 3/4	8.2
2 1/4	14.4	16.0	17.6	19.2	20.8	22.4	24.0	25.6	27.2	28.8	30.4	32.0	33.6	35.2	36.8	38.4	1 7/8	9.5
2 3/8	17.8	19.5	21.2	23.0	24.8	26.6	28.4	30.2	32.0	33.8	35.6	37.4	39.2	41.0	42.8	44.6	2	10.9
2 1/2	18.6	20.4	22.2	24.0	25.8	27.6	29.4	31.2	33.0	34.8	36.6	38.4	40.2	42.0	43.8	45.6	2 1/8	12.4
																		14.0
																		15.7

[illegible]

Fancy Pattern*
BRAZED BRASS TUBE
Half Hard Temper
14 Ft. and Shorts

B&S Gauge	OUTSIDE DIAMETER									
	3/8	7/16	1/2	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4
	WEIGHT PER LINEAL FOOT--STOCK SIZES REEDED*									
18	.15	.18	.21	...	...	...	...	...	...	...
20	...	...	.17	...	...	...	...	...	...	...
22	...	...	...	...	.193	.211	.248	.285	.321	.358
ROPE*										
18	.15	...	...	...	...	...	...	...	...	...
22	...	...	...	.174	...	.211	...	...	...	...
HEXAGON*										
20	...	...	.17	.22	...	.26	...	.36	...	...
Hexagon Twisted* 5/8-22 B&S. 5/8-20 B&S. 11/16-20 B&S. Single Rope Reeded* 3/4-20 B&S.										
Square Twisted* 5/8-22 B&S Double Rope Reeded* 3/4-22 B&S.										
Close Rope* 3/4-22 B&S Soft Reeded* 3/8-18 B&S. 7/16-18 B&S. 1/2-20 B&S.										

* Carried in Chicago Stock only.

HARD SPRING BRASS WIRE

Size B&S or A.W. Ga.	Decimal Equivalent	Weight in pounds per 1000 ft.
2	.257"	191.4
3	.229"	151.8
4	.204"	120.4
5	.182"	95.47
6	.162"	75.71
7	.144"	60.04
8	.128"	47.61
9	.114"	37.76
10	.101"	29.94
12	.080"	18.83
14	.064"	11.84
16	.050"	7.45
18	.040"	4.68
20	.032"	2.95
22	.025"	1.85

SOFT BARE COPPER WIRE

Size B&S or A.W. Ga.	Decimal Equivalent	Weight in pounds per 1000 ft.
3/8"	.375"	426.1
2	.257"	200.9
3	.229"	159.3
4	.204"	126.4
6	.162"	79.46
8	.128"	49.98
10	.102"	31.43
12	.081"	19.77
14	.064"	12.43
15	.057"	9.86
16	.051"	7.82
18	.040"	4.92
20	.032"	3.10
22	.025"	1.95
24	.020"	1.22

SOFT BRASS WIRE

Size B&S or A.W. Ga.	Decimal Equivalent	Weight in pounds per 1000 ft.
10	.101"	29.94
12	.080"	18.83
14	.064"	11.84
16	.050"	7.45
18	.040"	4.68
20	.032"	2.95

SOFT BRASS-SPOOL WIRE

1/4 lb. spools.
16-18-20-22-24-26 W. & M. Gauges.

SPRING BRASS-SPOOL WIRE

1/4 lb. spools.
16-18-20-22-24-26 W. & M. Gauges.

SOFT COPPER-SPOOL WIRE

1/4 lb. and 1/2 lb. spools.
16-18-20-22-24-26 W. & M. Gauges.

Other sizes and weights from the factory.

BRASS & COPPER SALES CO.

SPRING PHOSPHOR BRONZE WIRE

Can be shipped at once from New York stock.

COPPER ROOFING SUPPLIES

Copper Conductor Pipe-10 Ft. Lengths

Plain Round

14 oz.--2"

16 oz.--2"--3"--4"--5"--6".

Round, Corrugated

16 oz.--2"--3"--4"--5".

Square, Corrugated

16 oz.--2"--3"--4"--5".

Copper Conductor Elbows

Sizes other than listed for Stock Shipment from Factory

Plain Round

16 oz. 45° (No. 1) 2".

75° (No. 3) 2"--3"--4".

90° (No. 4) 2".

Round Corrugated

16 oz. 75° (No. 3) 3"--4"--5".

Square Corrugated--Style A

16 oz. 75° (No. 3) 3"--4"--5".

Rival Strap Gutter Hanger

5" and 6".



Stamped Copper Shanks and Circles

With Brass Bolts and Straps

5" circles--No.11 shanks. Also shanks to fasten under shingles or slate No.12.

COPPER ROOFING SUPPLIES

Rival One Piece Ornamental Straps

Style A--For Square or Round.

2"x3" and 3"x4"

Style C--For Square.

2"x3" and 3"x4".



STYLE A--WHEN FORMED FOR SQUARE PIPE



STYLE A--WHEN FORMED FOR ROUND PIPE



STYLE C--SQUARE ONLY

Copper Wire Conductor Strainers

2"--3"--4"--5"--6". Round. 3"--4"--5". Square.

STANDARD COPPER WIRE NAILS

Length in Inches	Gauge Stubs	Approx. Number to lb.
3/4	14	692
1	14	500
1 1/4	13	250
1 1/2	12	200
2	12	170
3	9	63
4	6	26

COPPER SLATING & ROOFING NAILS

Large Flat Heads

Length in Inches	Gauge Stubs	Approx. Number to lb.
1	12	270
1 1/4	12	216
1 1/2	11	160
1 3/4	11	130
2	11	125
2	10	100

COPPER TACKS-FLAT HEAD

3/8"--1/2"--5/8".

BRASS & COPPER SALES CO.

SOLDERING COPPERS

Pointed Pattern

1-2-2½-3-4-5-6-7-8-10 pounds to the pair.

SOLDER

Dutch Boy 111--(50-50) in 1 1/2 # bars.

No. 10 Wire Solder (50-50) and (45-55).



SOLDERING COPPER HANDLES

Shur Grip

No. 7-1½ to 4 lb. irons.

No. 8-4 to 8 lb. irons.

No. 9-8 to 12 lb. irons.

Plain



FLAT HEAD COPPER TINNERS RIVETS

1 pound packages

1/2-1-1 1/4-1 1/2-1 3/4-2-2 1/2-3-4-5-6-7-8 lbs. to the thousand.

COPPER BURS

1 pound packages

Nos. 4-5-6-7-8-9-10-11-12-14.

COPPER BELT RIVETS & BURS

1 pound packages

Number of Rivets and Burs to the pound--Stock Sizes.

Size	1/4"	3/8"	1/2"	5/8"	3/4	7/8"	1	1 1/4"	Burs Only
6	...	...	90	...	68	...	56	48	184
7	...	171	150	120	110	96	91	72	352
8	...	227	178	156	136	116	100	88	400
9	365	276	228	184	169	156	133	113	560
10	411	336	275	223	206	180	162	...	768
12	545	400	325	292	257	...	...	...	1024
14	1040	816	616	528	480	...	...	...	2048

Nos. 7-8-9 and 10 in Assorted Lengths from 3/8" to 3/4" in 1 pound packages.

ROUND HEAD COPPER RIVETS
1 Pound Packages And 5 Pound Cartons
Number To The Pound--Stock Sizes

Length	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
1/8" Diam.	624	572	520	468	392	306	270	..	220	..	..	..	..
3/16" Diam.	...	204	185	166	138	124	110	108	91	73	62	55	50
1/4" Diam.	81	75	67	57	55	46	40	33	30	27
5/16" Diam.	43	37	33	...	29	24	21	...	16
3/8" Diam.	29	23	21	...	18	16	14	...	11

ROUND HEAD BRASS RIVETS
1 Pound Packages
Number to the Pound--Stock Sizes

Length	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"
1/16" Diam.	4720	3712	3000	2379	...	...	...	...	...	...	...	...
1/8" Diam.	...	742	644	546	480	414	352	300	...	223	...	...
3/16" Diam.	206	...	171	141	127	118	96	85	77	...
1/4" Diam.	77	65	60	53	47	39	34
5/16" Diam.	35	...	30	...	...

Other sizes and types from the factory.

FLAT COUNTER SUNK HEAD COPPER RIVETS

1 Pound Packages

1/8" Diam. by 1/4"-3/8"-1/2"-5/8"-3/4"-1".
 3/16" Diam. by 1/2"-5/8"-3/4"-7/8"-1".
 1/4" Diam. by 1/2"-5/8"-3/4"-7/8"-1 1/4"-1 1/2"-2".
 5/16" Diam. by 3/4"-1".

PHONE
JEFFERSON
4600

OVAL HEAD COPPER BRAZERS' RIVETS

5 Pound Packages

Numbers in Stock	00	0	1	2	3	4	5	6	7
Diam. of Shank Length	5/32 5/16	3/16 3/8	1/4 1/2	17/64 1/2	9/32 5/8	5/16 11/16	23/64 3/4	3/8 13/16	7/16 15/16

BRAKE BAND COPPER RIVETS

All Popular sizes.

BRASS MACHINE BOLTS*

Hexagon Heads and Hexagon Nuts
Diameters up to 1" incl.

BRASS CARRIAGE BOLTS*

Square or Hexagon Nuts
Diameters up to 5/8" incl.

HEXAGON BRASS NUTS*

Milled or Cast

BRASS COTTER PINS*

BRASS CAP SCREWS*

Hexagon Head.

Copper and Brass Rivets
in special shapes and
sizes can be shipped on
short notice from the
Mill.

* Shipment from New York and Chicago Stock.

ROUND HEAD BRASS MACHINE SCREWS
Cornice Bolts

PHONE JEFFERSON 4600

1 Gross Packages

10/24--Approx. 3/16" by 1/2"-3/4"-1"-1 1/4" long.
1/4"/20 by 1/2"-3/4"-1"-1 1/4" long.

The above are common sheet metal sizes, Others from St.Louis Stock.

**SQUARE AND HEXAGON BRASS MACHINE
SCREW NUTS**

1 Gross Packages

10/24 and 1/4"/20.

BRASS WASHERS

1 Gross Packages

Bolt Size in Inches	Outside Diam. in Inches	Inside Diam. in Inches	Thickness in Inches	Approx. No. to lb.
1/8	3/8	.147	.032	1135
3/16	1/2	.200	.040	500
1/4	11/16	.260	.051	208
5/16	7/8	.337	.064	103
3/8	1	.391	.081	62
3/16	1 1/8	1/2	.081	52
1/2	1 1/4	9/16	.091	39
5/8	1 1/2	11/16	.102	232
3/4	1 7/8	13/16	.114	13
7/8	2 1/4	15/16	.128	7.7
1	2 1/2	1 1/16	.144	5.7

ROUND HEAD BRASS ESCUTCHEON PINS

No. 16 Stubs--3/8"-1/2"-3/4"-1".

Other sizes from factory.

BRASS STRAINER CLOTH

12"x60" Rolls

40-50-60 Mesh

BRASS OR COPPER WIRE CLOTH

Stock or Mill Shipment.

PERFORATED BRASS

26 B&S Ga. 12" or 14" wide. Nos. 22 Slot - 00 Diagonal -
0 Plain - 1 Plain - 2 Plain - 3 Plain - 4 Plain - 5 Plain -
5 1/2 Plain - 6 Plain - 7 Plain and 8 Plain.

Shipped from Chicago Stock. Other sizes made up promptly.

EXTRUDED BRONZE SILLS AND SADDLES

in St. Louis Stock for Immediate Shipment.

1 7/16" wide overall Sill Moulding.
3" wide overall Plain Door Saddle.
4" wide overall Plain Door Saddle.
4" wide overall Corrugated Door Saddle.
5" wide overall Corrugated Door Saddle.

Ask for drawings, weights or samples. We can furnish cut to length, polished and drilled. Other sizes and shapes from Mill.

Standard Brass Fittings

For Steam Working Pressures up to 125 Pounds—Square Bead
Rough—For Iron Pipe

Size	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Price, each	.12	.15	.20	.28	.40	.63	.90	1.20	2.00	3.50	6.00	8.00
Elbows, 90°	.19	.25	.35	.50	.80	1.20	1.80	2.50	4.25	7.50	10.00	12.50
Elbows, 45°	.16	.20	.25	.31	.40	.63	.90	1.20	2.00	3.50	6.00	8.00
Elbows, Street, 90°	.25	.27	.33	.48	.80	1.20	1.80	2.50	4.25	7.50	10.00	12.50
Elbows, Street, 45°	.45	.60	.85	1.20	1.90	2.75	3.60	6.00	10.50	18.00	25.00	30.00
Elbows, Side Outlet	.35	.45	.65	1.05	1.50	2.00	3.00	4.00	5.00	8.50	11.00	14.00
Elbows, Drop, Female	.17	.21	.28	.40	.55	.85	1.25	1.70	2.80	5.00	8.00	10.00
Tees, Reducing	.25	.35	.50	.70	1.05	1.55	2.10	3.00	6.25	10.50	14.00	17.50
Tees, Drop, Single Ear	.43	.57	.80	1.25	1.85	2.50	3.50	5.00	7.00	10.00	13.00	16.00
Tees, Drop, Double Ear	.58	.74	1.05	1.70	2.35	3.20	4.50	6.00	8.00	11.00	14.00	17.00
Tees, Side Outlet	.25	.30	.40	.55	.80	1.25	1.80	2.40	4.00	7.00	10.00	12.00
Crosses	.38	.50	.70	1.00	1.55	2.25	3.00	4.00	5.00	8.75	11.00	13.00
Couplings	.10	.13	.17	.25	.37	.55	.80	1.00	1.60	2.50	3.50	5.25
Couplings, R. & L.	.13	.17	.22	.30	.45	.70	1.00	1.30	2.00	3.10	4.50	6.00
Couplings, Reducing	.15	.20	.28	.40	.60	.90	1.10	1.75	2.75	4.00	6.00	8.00
Bushings, Regular	.10	.12	.15	.22	.35	.50	.70	1.00	1.50	2.50	3.75	5.00
Bushings, Face	.12	.15	.19	.27	.44	.62	.87	1.25	1.85	3.10	4.75	6.25
Plugs, Regular	.08	.10	.12	.15	.22	.30	.45	.60	.95	1.50	2.25	3.75
Plugs, Solid	.22	.30	.45	.60	.90	1.20	1.90	3.00	4.50	7.50	10.00	12.00
Plugs, Countersunk	.22	.30	.45	.60	.90	1.20	1.90	3.00	4.50	7.50	10.00	12.00
Caps	.10	.13	.16	.20	.30	.42	.60	.80	1.25	2.50	3.50	5.00
Locknuts	.10	.10	.12	.15	.20	.28	.40	.55	.80	1.75	2.75	4.00
Return Bends, Close	.30	.40	.55	.70	1.00	1.25	1.80	2.50	4.25	7.00	10.00	12.00
Return Bends, Open	.40	.50	.60	.80	1.10	1.40	2.15	3.00	4.75	8.25	11.00	13.00
Wyes	.60	.75	1.10	1.65	2.50	3.30	5.50	9.50	16.00	21.00	26.00	30.00

Brass Unions—Rough Octagon, Semi-finished, Polished or Polished and Tinned

Size	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Brass Unions, Rough	.40	.50	.65	.85	1.15	1.60	2.25	4.00	7.50	11.50	15.00	18.00
Brass Unions, Semi-finished	.45	.55	.75	.95	1.30	1.75	2.50	4.50	8.25	12.75	16.50	20.00
Brass Unions, Polished	.50	.60	.85	1.05	1.40	1.90	2.75	5.00	9.00	14.00	18.00	22.00
Brass Unions, Polished and Tinned	.65	.75	1.05	1.30	1.70	2.35	3.30	5.90	10.20	16.25	22.00	26.75

Brass Nipples Iron Pipe Sizes

Size	Length Close	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6
1/8	3/4	.11	.13	.15	.17	.19	.21	.23	.25	.27	.29
1/4	3/4	.13	.16	.19	.22	.25	.28	.31	.34	.37	.40
3/8	1	.15	.19	.23	.27	.31	.35	.39	.43	.47	.51
1/2	1 1/8	.23	.30	.35	.40	.45	.50	.55	.60	.65	.70
3/4	1 1/2	.28	.35	.42	.49	.56	.63	.70	.77	.84	.91
1	1 3/4	.37	.44	.53	.62	.71	.80	.89	.98	1.07	1.16
1 1/4	2	.60	.75	.88	1.01	1.14	1.27	1.40	1.53	1.66	1.80
1 1/2	2 1/4	.70	.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10
2	2 1/2	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
2 1/4	2 3/4	1.70	2.00	2.30	2.60	2.90	3.20	3.50	3.80	4.10	4.40
3	3	2.50	2.90	3.30	3.70	4.10	4.50	4.90	5.30	5.70	6.10
3 1/4	3 1/2	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50
4	4	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25
4 1/2	4 1/2	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
5	5	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
6	6	11.50	12.50	13.50	14.50	15.50	16.50	17.50	18.50	19.50	20.50

Polished Brass Nipples, Longer than Close, 25% Extra.
Nickel Plated Brass Nipples, 50% Extra.
Right and Left Nipples, 25% Extra.
Extra Heavy Nipples, Double above list.

Brass & Copper Flanges—Immediate Shipment from Factory.

Made of Forgings and Brass Rod for Refrigeration Lines

Nut-Long. No. 450.

Tube Diameters: $1/8"$ - $3/16"$ - $1/4"$ - $5/16"$ - $3/8"$ - $1/2"$



Nut Short, No. 449.

Tube Diameters: $3/16"$ - $1/4"$ - $5/16"$ - $3/8"$ - $1/2"$.



Nut Forged. No. 451.

Tube Diameters: $1/4"$ - $3/8"$ - $1/2"$.



Tube Union and Male Pipe End. No. 452.

Tube Diameters: $1/8"$ - $3/16"$

Pipe Thread: $1/8"$ - $1/8"$

Tube Diameters: $1/4"$ - $1/4"$ - $5/16"$

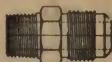
Pipe Thread: $1/8"$ - $1/4"$ - $1/8"$

Tube Diameters: $5/16"$ - $3/8"$

Pipe Thread: $1/4"$ - $1/8"$

Tube Diameters: $3/8"$ - $1/2"$ - $1/2"$

Pipe Thread: $1/4"$ - $3/8"$ - $1/2"$



Double End Union. No. 453.

Tube Diameters: $1/8"$ - $3/16"$ - $1/4"$ - $5/16"$ - $3/8"$ - $1/2"$.



Elbow, Tube and Male Pipe End. No. 455.

Tube Diameters: $1/8"$ - $3/16"$ - $1/4"$

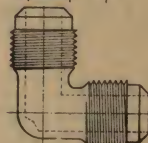
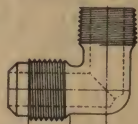
Pipe Thread: $1/8"$ - $1/8"$ - $1/8"$

Tube Diameters: $1/4"$ - $5/16"$ - $5/16"$

Pipe Thread: $1/4"$ - $1/8"$ - $1/4"$

Tube Diameters: $3/8"$ - $1/2"$

Pipe Thread: $1/4"$ - $3/8"$



Elbow, Tube Both Ends. No. 456.

Tube Diameters: $1/4"$ - $3/8"$ - $1/2"$.

Tee, Pipe Thread on Branch. No. 457.

Tube Diameters: $1/8"$ - $3/16"$

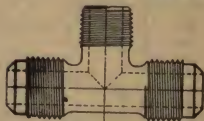
Pipe Thread: $1/8"$ - $1/8"$

Tube Diameters: $1/4"$ - $5/16"$

Pipe Thread: $1/8"$ - $1/8"$

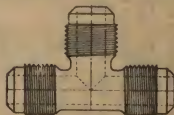
Tube Diameters: $3/8"$ - $1/2"$

Pipe Thread: $1/4"$ - $3/8"$



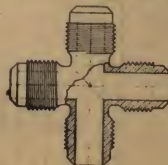
Tee, 3 Way. No. 458.

Tube Diameters: $1/8"$ - $3/16"$ - $1/4"$ - $5/16"$ - $3/8"$ - $1/2"$.



Cross, 4 tube ends. No. 460.

Tube Diameters: $1/4"$ - $3/8"$ - $1/2"$.



SPRING KEY COCKS

Male Pipe Thread and Copper Tube
Connections

complete with S.A.E. Nut.

Pipe Thread-- $1/8"$ - $1/8"$ - $1/8"$ - $1/4"$ - $1/4"$ - $1/4"$

Tube Dia.-- $1/4"$ - $5/16"$ - $3/8"$ - $1/4"$ - $5/16"$ - $3/8"$

BRASS & COPPER SALES CO.

BALL SOLDERLESS COMPRESSION FITTINGS

Complete with Sleeve and Nuts

Connectors - Male pipe Thread by Tube End. No.701.

Tube Size: 1/8"-3/16"-1/4"-5/16"-5/16"

Pipe Thread: 1/8"-1/8"-1/8"-1/8"-1/4"

Tube Size: 3/8"-3/8"-1/2"-5/8"-3/4"

Pipe Thread: 1/8"-1/4"-3/8"-1/2"-1/2"



Unions - Tube on Both Ends No. 702.

Tube Size: 3/16"-1/4"-5/16"-3/8"-1/2"-5/8"-3/4".



Connectors - Female Pipe Thread by Tube End. No.741.

Tube Size: 1/8"-3/16"-1/4"-5/16"-5/16"-3/8"-1/2".

Pipe Thread: 1/8"-1/8"-1/8"-1/8"-1/4"-1/4"-3/8".



Sleeves - No. 750.

All sizes.



Nuts - No. 760.

All sizes.



Elbows - Male Pipe Thread by Tube End. No. 801.

Tube Size: 1/8"-3/16"-1/4"-5/16"-5/16"

Thread Size: 1/8"-1/8"-1/8"-1/8"-1/4"

Tube Size: 3/8"-1/2"-1/2"-5/8"-3/4"

Thread Size: 1/8"-1/4"-3/8"-1/2"-1/2"



Tees - One Male Pipe Thread on Run. No. 901.

Tube Size: 1/8"-3/16"-1/4"-5/16"-3/8"-3/8"-1/2"

Pipe Thread: 1/8"-1/8"-1/8"-1/8"-1/8"-1/4"-3/8"



Tees - 3 Tube Ends. No. 902.

Tube Size: 3/16"-1/4"-5/16"-3/8"-1/2".



Tees - Male Pipe Thread on Branch. No. 903.

Tube Size: 3/16"-1/4"-5/16"-5/16"

Pipe Size: 1/8"-1/8"-1/8"-1/4"

Tube Size: 3/8"-3/8"-1/2"

Pipe Size: 1/8"-1/4"-3/8"



COMPRESSION SPRING KEY COCKS

Tube Size: 1/4"-1/4"-5/16"-5/16"-3/8"

Male Pipe Thread: 1/8"-1/4"-1/8"-1/4"-1/4"

BRASS DRAIN COCKS.

Male Pipe Thread: 1/8"-1/4"-3/8"-1/2"

Opening: 3/16"-1/4"-5/16"-3/8"

COMPARISON OF WIRE GAUGES

Gauge No.	American or Brown & Sharpe's	Birmingham or Stubs	Wash. & Moen	Imperial S. W. G.	London or Old English	United States Standard	Gauge No.
0000000			.490	.500		.500	0000000
000000	.5800		.460	.464		.46875	000000
00000	.5165		.430	.432		.4375	00000
0000	.4600	.454	.3938	.400	.454	.40625	0000
000	.4096	.425	.3625	.372	.425	.375	000
00	.3648	.380	.3310	.343	.38	.34375	00
0	.3249	.340	.3065	.324	.34	.3125	0
1	.2893	.300	.2830	.300	.3	.28125	1
2	.2576	.284	.2625	.276	.284	.265625	2
3	.2294	.259	.2437	.252	.259	.25	3
4	.2043	.238	.2253	.232	.238	.234375	4
5	.1819	.220	.2070	.212	.22	.21875	5
6	.1620	.203	.1920	.192	.203	.203125	6
7	.1443	.180	.1770	.176	.18	.1875	7
8	.1285	.165	.1620	.160	.165	.171875	8
9	.1144	.148	.1483	.144	.148	.15625	9
10	.1019	.134	.1350	.128	.134	.140625	10
11	.09074	.120	.1205	.116	.12	.125	11
12	.08081	.109	.1055	.104	.109	.109375	12
13	.07196	.095	.0915	.092	.095	.09375	13
14	.06408	.083	.0800	.080	.083	.078125	14
15	.05707	.072	.0720	.072	.072	.0703125	15
16	.05082	.065	.0625	.064	.065	.0625	16
17	.04526	.058	.0540	.056	.058	.05625	17
18	.04030	.049	.0475	.048	.049	.05	18
19	.03589	.042	.0410	.040	.040	.04375	19
20	.03196	.035	.0348	.036	.035	.0375	20
21	.02846	.032	.03175	.032	.0315	.034375	21
22	.02535	.028	.0286	.028	.0295	.03125	22
23	.02257	.025	.0258	.024	.027	.028125	23
24	.02010	.022	.0230	.022	.025	.025	24
25	.01790	.020	.0204	.020	.023	.021875	25
26	.01594	.018	.0181	.018	.0205	.01875	26
27	.01420	.016	.0173	.0164	.0187	.0171875	27
28	.01264	.014	.0162	.0148	.0165	.015625	28
29	.01126	.013	.0150	.0136	.0155	.0140625	29
30	.01003	.012	.0140	.0124	.01372	.0125	30
31	.008928	.010	.0132	.0116	.0122	.0109375	31
32	.007950	.009	.0128	.0108	.0112	.01015625	32
33	.007080	.008	.0118	.0100	.0102	.009375	33
34	.006305	.007	.0104	.0092	.0095	.00859375	34
35	.005615	.005	.0095	.0084	.009	.0078125	35
36	.005000	.004	.0090	.0076	.0075	.00703125	36
37	.004453		.0085	.0068	.0065	.006640625	37
38	.003965		.008	.0060	.0057	.00625	38
39	.003531		.0075	.0052	.005		39
40	.003145		.007	.0048	.0045		40
41	.002800			.0044			41
42	.002494			.004			42
43	.002221			.0036			43
44	.001978			.0032			44
45	.001761			.0028			45
46	.001568			.0024			46
47	.001397			.002			47
48	.001244			.0016			48
49	.001018			.0012			49
50	.0009863			.001			50

Fractions of an Inch and Decimal Equivalents

			1	1	.015625
			32	64	.03125
		1		3	.046875
		16		64	.0625
			3	5	.078125
			32	64	.09375
				7	.109375
	1			64	.125
	8			9	.140625
			5	64	.15625
			32	11	.171875
		3		64	.1875
		16		13	.203125
			7	64	.21875
			32	15	.234375
1				64	.250
4				17	.265625
			9	64	.28125
			32	19	.296875
		5		64	.3125
		16		21	.328125
			11	64	.34375
			32	23	.359375
	3			64	.375
	8			25	.390625
			13	64	.40625
			32	27	.421875
		7		64	.4375
		16		29	.453125
			15	64	.46875
			32	31	.484375
1				64	.500
2				33	.515625
			17	64	.53125
			32	35	.546875
		9		64	.5625
		16		37	.578125
			19	64	.59375
			32	39	.609375
	5			64	.625
	8			41	.640625
			21	64	.65625
			32	43	.671875
		11		64	.6875
		16		45	.703125
			23	64	.71875
			32	47	.734375
3				64	.750
4				49	.765625
			25	64	.78125
			32	51	.796875
		13		64	.8125
		16		53	.828125
			27	64	.84375
			32	55	.859375
	7			64	.875
	8			57	.890625
			29	64	.90625
			32	59	.921875
		15		64	.9375
		16		61	.953125
			31	64	.96875
			32	63	.984375
				64	1.0000

WEIGHT OF SHEET BRASS

BROWN & SHARPE'S GAUGE

No.	Weight per Sq. Ft.	No.	Weight per Sq. Ft.
0000	11.6	19	.90
000	10.4	20	.80
00	9.2	21	.70
0	8.2	22	.60
1	7.3	23	.57
2	6.5	24	.51
3	5.8	25	.46
4	5.1	26	.40
5	4.6	27	.36
6	4.1	28	.32
7	3.6	29	.28
8	3.2	30	.25
9	2.9	31	.23
10	2.5	32	.20
11	2.3	33	.18
12	2.0	34	.16
13	1.8	35	.14
14	1.6	36	.13
15	1.4	37	.11
16	1.2	38	.10
17	1.1	39	.08
18	1.0	40	.07

In	Weight per Sq. Ft.	In	Weight per Sq. Ft.
$\frac{1}{16}$	1.5	$1\frac{1}{16}$	27.0
$\frac{1}{8}$	3.1	$1\frac{1}{8}$	28.6
$\frac{3}{16}$	4.7	$1\frac{3}{16}$	30.2
$\frac{1}{4}$	6.3	$1\frac{1}{4}$	31.7
$\frac{5}{16}$	7.9	$1\frac{5}{16}$	33.3
$\frac{3}{8}$	9.5	$1\frac{3}{8}$	34.8
$\frac{7}{16}$	11.1	$1\frac{7}{16}$	36.4
$\frac{1}{2}$	12.7	$1\frac{1}{2}$	38.1
$\frac{9}{16}$	13.9	$1\frac{9}{16}$	39.7
$\frac{5}{8}$	15.8	$1\frac{5}{8}$	41.3
$\frac{11}{16}$	17.4	$1\frac{11}{16}$	42.9
$\frac{3}{4}$	19.0	$1\frac{3}{4}$	44.4
$\frac{13}{16}$	20.9	$1\frac{13}{16}$	46.0
$\frac{7}{8}$	22.2	$1\frac{7}{8}$	47.6
$\frac{15}{16}$	23.7	$1\frac{15}{16}$	49.2
1	25.4	2	50.8

Specific Gravity=8.512.

Weight per Cubic Inch = .3075 lbs.

Weight per Cubic Foot = 531.4 lbs.

These weights are theoretically correct, but variations must be expected in practice.

NOTE: The figures in heavy face type in all cases represent Metric Measurements.

THICKNESS OF STANDARD COPPER SHEETS ROLLED TO WEIGHT

Weight per Sq. Ft.		Thickness	Nearest Gauge No.		Nearest
Ounces	Pounds	Inches	B. & S.	Stubs'	FRACTION
	16	.3456	00	00	$\frac{11}{32}$
	15	.3240	0	0	$\frac{21}{64} +$
	14	.3024	1	1	$\frac{19}{64} -$
	13	.2808	1	2	$\frac{9}{32}$
	12	.2592	2	3	$\frac{1}{4} -$
	11	.2376	3	4	$\frac{15}{64} -$
	10	.2160	4	5	$\frac{7}{32} +$
	9½	.2052	4	6	$\frac{13}{64}$
	9	.1944	4	6	$\frac{13}{64}$
	8½	.1836	5	7	$\frac{3}{16} +$
	8	.1728	5	8	$\frac{11}{64}$
	7½	.1620	6	8	
	7	.1512	7	9	$\frac{5}{32} +$
	6½	.1404	7	10	$\frac{9}{64}$
	6	.1296	8	10	$\frac{1}{8} -$
	5½	.1188	9	11	
80	5	.1080	10	12	$\frac{7}{64} +$
72	4½	.0972	10	13	$\frac{3}{32} -$
64	4	.0864	11	14	
56	3½	.0756	13	15	$\frac{5}{64} +$
48	3	.0648	14	16	$\frac{1}{16} -$
44	2¾	.0594	15	17	
40	2½	.0540	15	17	
36	2¼	.0486	16	18	$\frac{3}{64} -$
32	2	.0432	17	19	
28	1¾	.0378	19	20	
24	1½	.0324	20	21	$\frac{1}{32} -$
20	1¼	.0270	21	22	
18	1⅛	.0243	22	23	
16	1	.0216	23	24	
15	$\frac{15}{16}$	.0202	24	25	
14	$\frac{7}{8}$	.0189	25	26	
13	$\frac{13}{16}$	.0173	25	26	
12	$\frac{3}{4}$	.0162	26	27	$\frac{1}{64} -$
11	$\frac{11}{16}$	.0146	27	28	
10	$\frac{5}{8}$	.0135	27	29	
9	$\frac{9}{16}$	.0120	28	30	
8	$\frac{1}{2}$	.0108	29	31	
7	$\frac{7}{16}$	.0093	31	32	
6	$\frac{3}{8}$	.0081	32	33	

The + sign shows that the size is more than 1 per cent full.

The — sign shows that the size is more than 1 per cent scant.

Variations from these weights must be expected in practice.

Weight of COPPER SHEETS

Brown & Sharpe's Gauge			Stubs' Gauge			Inches and Fractions	
No.	Decimal Equivalent Inches	Pounds per Sq. Ft.	No.	Decimal Equivalent Inches	Pounds per Sq. Ft.	Thickness	Pounds per Sq. Ft.
0000	.4600	21.30	0000	.454	21.02	$\frac{1}{16}$	2.894
000	.4096	18.97	000	.425	19.68	$\frac{1}{8}$	5.788
00	.3648	16.89	00	.380	17.59	$\frac{3}{16}$	8.681
0	.3249	15.04	0	.340	15.74	$\frac{1}{4}$	11.58
1	.2893	13.39	1	.300	13.89	$\frac{5}{16}$	14.47
2	.2576	11.93	2	.284	13.15	$\frac{3}{8}$	17.36
3	.2294	10.62	3	.259	11.99	$\frac{7}{16}$	20.25
4	.2043	9.460	4	.238	11.02	$\frac{1}{2}$	23.15
5	.1819	8.424	5	.220	10.19	$\frac{9}{16}$	26.04
6	.1620	7.502	6	.203	9.399	$\frac{5}{8}$	28.94
7	.1443	6.681	7	.180	8.334	$\frac{11}{16}$	31.83
8	.1285	5.949	8	.165	7.639	$\frac{3}{4}$	34.73
9	.1144	5.298	9	.148	6.852	$\frac{13}{16}$	37.62
10	.1019	4.718	10	.134	6.204	$\frac{7}{8}$	40.51
11	.09074	4.201	11	.120	5.556	$\frac{15}{16}$	43.41
12	.08081	3.741	12	.109	5.047	1	46.30
13	.07196	3.332	13	.095	4.399	$1\frac{1}{16}$	49.19
14	.06408	2.967	14	.083	3.843	$1\frac{1}{8}$	52.09
15	.05707	2.642	15	.072	3.334	$1\frac{3}{16}$	54.98
16	.05082	2.353	16	.065	3.009	$1\frac{1}{4}$	57.88
17	.04526	2.096	17	.058	2.685	$1\frac{5}{16}$	60.77
18	.04030	1.866	18	.049	2.269	$1\frac{3}{8}$	63.66
19	.03589	1.662	19	.042	1.945	$1\frac{7}{16}$	66.56
20	.03196	1.480	20	.035	1.621	$1\frac{1}{2}$	69.45
21	.02846	1.318	21	.032	1.482	$1\frac{9}{16}$	72.35
22	.02535	1.174	22	.028	1.296	$1\frac{5}{8}$	75.24
23	.02257	1.045	23	.025	1.158	$1\frac{11}{16}$	78.13
24	.02010	.9307	24	.022	1.019	$1\frac{3}{4}$	81.03
25	.01790	.8288	25	.020	.9260	$1\frac{13}{16}$	83.92
26	.01594	.7381	26	.018	.8334	$1\frac{7}{8}$	86.81
27	.01420	.6573	27	.016	.7408	$1\frac{15}{16}$	89.71
28	.01264	.5853	28	.014	.6482	2	92.60
29	.01126	.5212	29	.013	.6019		
30	.01003	.4642	30	.012	.5556		
31	.008928	.4134	31	.010	.4630		
32	.007950	.3681	32	.009	.4167		
33	.007080	.3278	33	.008	.3704		
34	.006305	.2919	34	.007	.3241		
35	.005615	.2600	35	.005	.2315		
36	.005000	.2315	36	.004	.1852		
37	.004453	.2062					
38	.003965	.1836					
39	.003531	.1635					
40	.003145	.1456					

Variations from these weights must be expected in practice.

STUBS' GAUGE

PHONE
JEFFERSON
4600

Stubs' Gauge	Decimal of Inches	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	
4	.238	6.0	4.7	7.9	9.5	11.1	12.7	14.2	15.8	19.0	22.2	25.4	28.6	31.7	34.8	38.1	41.3	44.4	47.6	50.8	54.0	57.1	60.3
5	.220	5.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	.203	5.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.180	4.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.165	4.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.148	3.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	.134	3.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	.120	3.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	.109	2.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	.095	2.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	.083	2.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	.072	1.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	.063	1.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	.058	1.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	.049	1.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	.042	1.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	.035	.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	.032	.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	.028	.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	.025	.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	.022	.55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	.020	.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

NOTE: The figures in heavy face type in all cases represent Metric Measurements.

WEIGHT OF SEAMLESS DRAWN BRASS TUBES. OUTSIDE DIAMETER STUBS' GAUGE

Stubs' Gauge	Deciml of an Inch	2 7/8	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/4	6 1/2	6 3/4	7	7 1/4	7 1/2	7 3/4
1	.300	72.0	76.2	82.5	88.8	95.1	101.6	107.9	114.2	120.5	127.0	133.3	139.6	145.9	152.4	158.7	165.0	171.3	177.8	184.1	190.4	196.7
2	.284	8.94	9.38	10.24	11.12	11.98	12.85	13.72	14.59	15.46	16.33	17.20	18.07	18.93	19.81	20.67	21.55	22.41	23.29	24.15	25.02	25.89
3	.259	8.52	8.93	9.76	10.58	11.40	12.23	13.04	13.87	14.68	15.51	16.34	17.16	17.98	18.80	19.62	20.46	21.29	22.09	22.92	23.75	24.57
4	.238	7.28	7.62	8.31	9.00	9.69	10.37	11.07	11.75	12.45	13.14	13.82	14.52	15.20	15.89	16.59	17.27	17.97	18.65	19.34	20.03	20.72
5	.220	6.76	7.09	7.72	8.36	9.00	9.63	10.27	10.91	11.55	12.19	12.83	13.46	14.10	14.74	15.37	16.01	16.65	17.28	17.92	18.56	19.20
6	.203	6.28	6.57	7.16	7.75	8.34	8.93	9.51	10.11	10.70	11.29	11.87	12.46	13.04	13.63	14.22	14.81	15.40	15.99	16.58	17.17	17.74
7	.180	5.62	5.89	6.40	6.93	7.45	7.97	8.49	9.02	9.54	10.05	10.57	11.10	11.62	12.14	12.66	13.19	13.70	14.22	14.74	15.27	15.79
8	.165	5.18	5.42	5.89	6.38	6.85	7.33	7.81	8.28	8.76	9.24	9.72	10.19	10.68	11.16	11.63	12.11	12.59	13.06	13.55	14.02	14.50
9	.148	4.67	4.89	5.32	5.75	6.18	6.60	7.03	7.46	7.89	8.31	8.75	9.18	9.61	10.03	10.46	10.89	11.32	11.74	12.17	12.60	13.03
10	.134	4.26	4.46	4.85	5.24	5.62	6.00	6.39	6.78	7.17	7.56	7.94	8.33	8.72	9.11	9.50	9.89	10.28	10.66	11.05	11.44	11.83
11	.120	3.83	4.01	4.35	4.70	5.05	5.40	5.75	6.09	6.44	6.78	7.14	7.48	7.83	8.18	8.52	8.87	9.22	9.57	9.92	10.26	10.61
12	.109	3.50	3.65	3.97	4.28	4.60	4.91	5.23	5.55	5.86	6.18	6.50	6.81	7.13	7.44	7.76	8.08	8.39	8.70	9.03	9.34	9.65
13	.095	3.06	3.20	3.48	3.75	4.03	4.30	4.58	4.85	5.13	5.41	5.68	5.96	6.23	6.51	6.78	7.06	7.33	7.61	7.89	8.16	8.44
14	.083	2.69	2.80	3.05	3.29	3.52	3.77	4.01	4.25	4.49	4.73	4.97	5.22	5.45	5.69	5.94	6.18	6.42	6.66	6.90	7.13	7.38
15	.072	2.33	2.43	2.64	2.85	3.06	3.27	3.48	3.69	3.90	4.10	4.31	4.52	4.73	4.94	5.14	5.35	5.56	5.77	5.98	6.19	6.39
16	.065	2.11	2.20	2.39	2.58	2.77	2.96	3.15	3.34	3.53	3.72	3.90	4.09	4.28	4.47	4.66	4.85	5.04	5.22	5.41	5.60	5.79
17	.058	1.89	1.98	2.15	2.31	2.48	2.65	2.82	2.98	3.15	3.32	3.49	3.66	3.82	3.99	4.16	4.32	4.49	4.66	4.84	5.00	5.17
18	.049	1.60	1.67	1.82	1.96	2.10	2.24	2.39	2.52	2.66	2.80	2.95	3.09	3.23	3.37	3.52	3.66	3.80	3.94	.....	.....	.....
19	.042	1.38	1.43	1.56	1.68	1.81	1.92	2.04	2.17	2.29	2.41	2.53	2.65	2.77	2.90	.....	.....	.....	.....	.....	.....	.....
20	.035	1.15	1.20	1.30	1.41	1.50	1.61	1.71	1.81	1.91	2.01	2.12	2.22	.....	.....	.....	.....	.....	.....	.....	.....	.....

copper tube weighs about 5 per cent more than brass

NOTE: The figures in heavy face type in all cases represent Metric Measurements.

Weight of DRAWN COPPER BARS STANDARD RECTANGULAR SIZES

PHONE
JEFFERSON
4600

Special Sizes and Shapes Made to Order

Pounds Per Linear Foot

Size, In.	Pounds	Size, In.	Pounds	Size, In.	Pounds
$\frac{1}{16}$ x $\left\{ \begin{array}{l} \frac{1}{8} \\ \frac{3}{16} \\ \frac{1}{4} \\ \frac{5}{16} \\ \frac{3}{8} \\ \frac{7}{16} \\ \frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \end{array} \right.$	0.1206	$\frac{1}{4}$ x $\left\{ \begin{array}{l} 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \end{array} \right.$	1.929	$\frac{1}{2}$ x $\left\{ \begin{array}{l} 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \\ 5\frac{1}{4} \\ 5\frac{1}{2} \\ 5\frac{3}{4} \\ 6 \end{array} \right.$	8.199
	.1507		2.170		8.681
	.1809		2.412		9.164
	.2110		2.653		9.646
	.2412		2.894		10.13
	.3014		3.135		10.61
	.3617		3.376		11.09
			3.617		11.58
			3.858		
			4.100		
$\frac{1}{8}$ x $\left\{ \begin{array}{l} \frac{1}{4} \\ \frac{3}{8} \\ \frac{1}{2} \\ \frac{5}{8} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \end{array} \right.$	0.2412	$\frac{3}{8}$ x $\left\{ \begin{array}{l} 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \end{array} \right.$	4.341	$\frac{3}{4}$ x $\left\{ \begin{array}{l} 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \end{array} \right.$	2.894
	.3014		4.582		3.617
	.3617		4.823		4.341
	.4220		5.064		5.064
	.4823		5.305		5.788
	.6029		5.546		6.511
	.7235		5.788		7.235
	.8440				7.958
	.9646				8.681
	1.085				9.405
$\frac{3}{16}$ x $\left\{ \begin{array}{l} \frac{1}{4} \\ \frac{3}{8} \\ \frac{1}{2} \\ \frac{5}{8} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \end{array} \right.$	1.206	$\frac{1}{2}$ x $\left\{ \begin{array}{l} 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \\ 5\frac{1}{4} \\ 5\frac{1}{2} \\ 5\frac{3}{4} \\ 6 \end{array} \right.$	1.447	1 x $\left\{ \begin{array}{l} 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \end{array} \right.$	3.858
	1.326		1.809		4.823
	1.447		2.170		5.788
	1.567		2.532		6.752
	1.688		2.894		7.717
	1.809		3.256		8.681
	1.929		3.617		9.646
			3.979		10.61
			4.341		11.58
			4.702		12.54
$\frac{1}{4}$ x $\left\{ \begin{array}{l} \frac{3}{8} \\ \frac{1}{2} \\ \frac{5}{8} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \end{array} \right.$	0.3617	$\frac{3}{4}$ x $\left\{ \begin{array}{l} 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \end{array} \right.$	5.064		13.50
	.4522		5.426		14.47
	.5426		5.788		15.43
	.6330		6.149		16.40
	.7235		6.511		17.36
	.9043		6.873		18.33
	1.085		7.235		19.29
	1.266		7.596		20.26
	1.447		7.958		21.22
	1.628		8.320		22.19
$\frac{3}{8}$ x $\left\{ \begin{array}{l} 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \end{array} \right.$	1.809	1 x $\left\{ \begin{array}{l} 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \\ 5\frac{1}{4} \\ 5\frac{1}{2} \\ 5\frac{3}{4} \\ 6 \end{array} \right.$	8.681		23.15
	1.989				
	2.170				
	2.351				
	2.532				
	2.713				
	2.894				
$\frac{1}{2}$ x $\left\{ \begin{array}{l} \frac{3}{4} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1\frac{3}{4} \\ 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \end{array} \right.$	0.4823	$1\frac{1}{2}$ x $\left\{ \begin{array}{l} 2 \\ 2\frac{1}{4} \\ 2\frac{1}{2} \\ 2\frac{3}{4} \\ 3 \\ 3\frac{1}{4} \\ 3\frac{1}{2} \\ 3\frac{3}{4} \\ 4 \\ 4\frac{1}{4} \\ 4\frac{1}{2} \\ 4\frac{3}{4} \\ 5 \\ 5\frac{1}{4} \\ 5\frac{1}{2} \\ 5\frac{3}{4} \\ 6 \end{array} \right.$	1.929		
	.6029		2.412		
	.7235		2.894		
	.8440		3.376		
	.9646		3.858		
	1.206		4.341		
	1.447		4.823		
	1.688		5.305		
			5.788		
			6.270		

Variations from these weights must be expected in practice.

TABLE OF DIAMETERS

Areas of Squares and Circles—

Also Circumferences of Circles

Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches	Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches
$\frac{1}{16}$	.0039	.0031	.1964	2	4.0000	3.1416	6.2832
$\frac{1}{8}$	.0156	.0123	.3927	$2\frac{1}{16}$	4.2539	3.3410	6.4796
$\frac{3}{16}$	.0352	.0276	.5891	$2\frac{1}{8}$	4.5156	3.5466	6.6759
$\frac{1}{4}$	.0625	.0491	.7854	$2\frac{3}{16}$	4.7852	3.7583	6.8723
$\frac{5}{16}$	.0977	.0767	.9818	$2\frac{1}{4}$	5.0625	3.9761	7.0686
$\frac{3}{8}$	.1406	.1104	1.1781	$2\frac{5}{16}$	5.3477	4.2000	7.2650
$\frac{7}{16}$	.1914	.1503	1.3745	$2\frac{3}{8}$	5.6406	4.4301	7.4613
$\frac{1}{2}$	.2500	.1964	1.5708	$2\frac{7}{16}$	5.9414	4.6664	7.6577
$\frac{9}{16}$	.3164	.2485	1.7672	$2\frac{1}{2}$	6.2500	4.9088	7.8540
$\frac{5}{8}$	.3906	.3068	1.9635	$2\frac{9}{16}$	6.5664	5.1573	8.0504
$\frac{11}{16}$	.4727	.3712	2.1599	$2\frac{5}{8}$	6.8906	5.4119	8.2467
$\frac{3}{4}$	.5625	.4418	2.3562	$2\frac{11}{16}$	7.2227	5.6727	8.4431
$\frac{13}{16}$	.6602	.5185	2.5526	$2\frac{3}{4}$	7.5625	5.9396	8.6394
$\frac{7}{8}$	.7656	.6013	2.7489	$2\frac{13}{16}$	7.9102	6.2126	8.8358
$\frac{15}{16}$	.8789	.6903	2.9453	$2\frac{7}{8}$	8.2656	6.4918	9.0321
1	1.0000	.7854	3.1416	$2\frac{15}{16}$	8.6289	6.7771	9.2285
$1\frac{1}{16}$	1.1289	.8866	3.3380	3	9.0000	7.0686	9.4248
$1\frac{1}{8}$	1.2656	.9940	3.5343	$3\frac{1}{16}$	9.3789	7.3662	9.6212
$1\frac{3}{16}$	1.4102	1.1075	3.7307	$3\frac{1}{8}$	9.7656	7.6699	9.8175
$1\frac{1}{4}$	1.5625	1.2272	3.9270	$3\frac{3}{16}$	10.160	7.9798	10.014
$1\frac{5}{16}$	1.7227	1.3530	4.1234	$3\frac{1}{4}$	10.563	8.2958	10.210
$1\frac{3}{8}$	1.8906	1.4849	4.3197	$3\frac{5}{16}$	10.973	8.6179	10.407
$1\frac{7}{16}$	2.0664	1.6230	4.5161	$3\frac{3}{8}$	11.391	8.9462	10.603
$1\frac{1}{2}$	2.2500	1.7672	4.7124	$3\frac{7}{16}$	11.816	9.2806	10.799
$1\frac{9}{16}$	2.4414	1.9175	4.9088	$3\frac{1}{2}$	12.250	9.6212	10.996
$1\frac{5}{8}$	2.6406	2.0739	5.1051	$3\frac{9}{16}$	12.691	9.9678	11.192
$1\frac{11}{16}$	2.8477	2.2365	5.3015	$3\frac{5}{8}$	13.141	10.321	11.388
$1\frac{3}{4}$	3.0625	2.4053	5.4978	$3\frac{11}{16}$	13.598	10.680	11.585
$1\frac{13}{16}$	3.2852	2.5802	5.6942	$3\frac{3}{4}$	14.063	11.045	11.781
$1\frac{7}{8}$	3.5156	2.7612	5.8905	$3\frac{13}{16}$	14.535	11.416	11.977
$1\frac{15}{16}$	3.7539	2.9483	6.0869	$3\frac{7}{8}$	15.016	11.793	12.174
				$3\frac{15}{16}$	15.504	12.177	12.370

TABLE OF DIAMETERS

(Continued)

Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches	Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches
4	16.000	12.566	12.566	6	36.000	28.274	18.850
4 $\frac{1}{16}$	16.504	12.962	12.763	6 $\frac{1}{16}$	36.754	28.867	19.046
4 $\frac{1}{8}$	17.016	13.364	12.959	6 $\frac{1}{8}$	37.516	29.465	19.242
4 $\frac{3}{16}$	17.535	13.772	13.155	6 $\frac{3}{16}$	38.285	30.069	19.439
4 $\frac{1}{4}$	18.063	14.186	13.352	6 $\frac{1}{4}$	39.063	30.680	19.635
4 $\frac{5}{16}$	18.598	14.607	13.548	6 $\frac{5}{16}$	39.848	31.296	19.831
4 $\frac{3}{8}$	19.141	15.033	13.745	6 $\frac{3}{8}$	40.641	31.919	20.028
4 $\frac{7}{16}$	19.691	15.466	13.941	6 $\frac{7}{16}$	41.441	32.548	20.224
4 $\frac{1}{2}$	20.250	15.904	14.137	6 $\frac{1}{2}$	42.250	33.183	20.420
4 $\frac{9}{16}$	20.816	16.349	14.334	6 $\frac{9}{16}$	43.066	33.824	20.617
4 $\frac{5}{8}$	21.391	16.800	14.530	6 $\frac{5}{8}$	43.891	34.472	20.813
4 $\frac{11}{16}$	21.973	17.257	14.726	6 $\frac{11}{16}$	44.723	35.125	21.009
4 $\frac{3}{4}$	22.563	17.721	14.923	6 $\frac{3}{4}$	45.563	35.785	21.206
4 $\frac{13}{16}$	23.160	18.190	15.119	6 $\frac{13}{16}$	46.410	36.451	21.402
4 $\frac{7}{8}$	23.766	18.666	15.315	6 $\frac{7}{8}$	47.266	37.122	21.599
4 $\frac{15}{16}$	24.379	19.147	15.512	6 $\frac{15}{16}$	48.129	37.800	21.795
5	25.000	19.635	15.708	7	49.000	38.485	21.991
5 $\frac{1}{16}$	25.629	20.129	15.904	7 $\frac{1}{16}$	49.879	39.175	22.188
5 $\frac{1}{8}$	26.266	20.629	16.101	7 $\frac{1}{8}$	50.766	39.871	22.384
5 $\frac{3}{16}$	26.910	21.135	16.297	7 $\frac{3}{16}$	51.660	40.574	22.580
5 $\frac{1}{4}$	27.563	21.648	16.493	7 $\frac{1}{4}$	52.563	41.283	22.777
5 $\frac{5}{16}$	28.223	22.166	16.690	7 $\frac{5}{16}$	53.473	41.997	22.973
5 $\frac{3}{8}$	28.891	22.691	16.886	7 $\frac{3}{8}$	54.391	42.718	23.169
5 $\frac{7}{16}$	29.566	23.221	17.082	7 $\frac{7}{16}$	55.316	43.446	23.366
5 $\frac{1}{2}$	30.250	23.758	17.279	7 $\frac{1}{2}$	56.250	44.179	23.562
5 $\frac{9}{16}$	30.941	24.301	17.475	7 $\frac{9}{16}$	57.191	44.918	23.758
5 $\frac{5}{8}$	31.641	24.851	17.672	7 $\frac{5}{8}$	58.141	45.664	23.955
5 $\frac{11}{16}$	32.348	25.406	17.868	7 $\frac{11}{16}$	59.098	46.415	24.151
5 $\frac{3}{4}$	33.063	25.967	18.064	7 $\frac{3}{4}$	60.063	47.173	24.347
5 $\frac{13}{16}$	33.785	26.535	18.261	7 $\frac{13}{16}$	61.035	47.937	24.544
5 $\frac{7}{8}$	34.516	27.109	18.457	7 $\frac{7}{8}$	62.016	48.707	24.740
5 $\frac{15}{16}$	35.254	27.688	18.653	7 $\frac{15}{16}$	63.004	49.483	24.936

TABLE OF DIAMETERS

(Continued)

Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches	Diam. Inches	Area of □ in Square Inches	Area of ○ in Square Inches	Circum- ference of ○ in Inches
8	64.000	50.266	25.133	10	100.00	78.540	31.416
8 $\frac{1}{16}$	65.004	51.054	25.329	10 $\frac{1}{16}$	101.25	79.525	31.612
8 $\frac{1}{8}$	66.016	51.849	25.526	10 $\frac{1}{8}$	102.52	80.516	31.809
8 $\frac{3}{16}$	67.035	52.649	25.722	10 $\frac{3}{16}$	103.79	81.513	32.005
8 $\frac{1}{4}$	68.063	53.456	25.918	10 $\frac{1}{4}$	105.06	82.516	32.201
8 $\frac{5}{16}$	69.098	54.269	26.115	10 $\frac{5}{16}$	106.35	83.525	32.398
8 $\frac{3}{8}$	70.141	55.088	26.311	10 $\frac{3}{8}$	107.64	84.541	32.594
8 $\frac{7}{16}$	71.191	55.914	26.507	10 $\frac{7}{16}$	108.94	85.563	32.790
8 $\frac{1}{2}$	72.250	56.745	26.704	10 $\frac{1}{2}$	110.25	86.590	32.987
8 $\frac{9}{16}$	73.316	57.583	26.900	10 $\frac{9}{16}$	111.57	87.624	33.183
8 $\frac{5}{8}$	74.391	58.426	27.096	10 $\frac{5}{8}$	112.89	88.664	33.379
8 $\frac{11}{16}$	75.473	59.276	27.293	10 $\frac{11}{16}$	114.22	89.710	33.576
8 $\frac{3}{4}$	76.563	60.132	27.489	10 $\frac{3}{4}$	115.56	90.763	33.772
8 $\frac{13}{16}$	77.660	60.994	27.685	10 $\frac{13}{16}$	116.91	91.821	33.969
8 $\frac{7}{8}$	78.766	61.863	27.882	10 $\frac{7}{8}$	118.27	92.886	34.165
8 $\frac{15}{16}$	79.879	62.737	28.078	10 $\frac{15}{16}$	119.63	93.957	34.361
9	81.000	63.617	28.274	11	121.00	95.033	34.558
9 $\frac{1}{16}$	82.129	64.504	28.471	11 $\frac{1}{16}$	122.38	96.116	34.754
9 $\frac{1}{8}$	83.266	65.397	28.667	11 $\frac{1}{8}$	123.77	97.206	34.950
9 $\frac{3}{16}$	84.410	66.296	28.863	11 $\frac{3}{16}$	125.16	98.301	35.147
9 $\frac{1}{4}$	85.563	67.201	29.060	11 $\frac{1}{4}$	126.56	99.402	35.343
9 $\frac{5}{16}$	86.723	68.112	29.256	11 $\frac{5}{16}$	127.97	100.51	35.539
9 $\frac{3}{8}$	87.891	69.029	29.453	11 $\frac{3}{8}$	129.39	101.62	35.736
9 $\frac{7}{16}$	89.066	69.953	29.649	11 $\frac{7}{16}$	130.82	102.74	35.932
9 $\frac{1}{2}$	90.250	70.882	29.845	11 $\frac{1}{2}$	132.25	103.87	36.128
9 $\frac{9}{16}$	91.441	71.818	30.042	11 $\frac{9}{16}$	133.69	105.00	36.325
9 $\frac{5}{8}$	92.641	72.760	30.238	11 $\frac{5}{8}$	135.14	106.14	36.521
9 $\frac{11}{16}$	93.848	73.708	30.434	11 $\frac{11}{16}$	136.60	107.28	36.717
9 $\frac{3}{4}$	95.063	74.662	30.631	11 $\frac{3}{4}$	138.06	108.43	36.914
9 $\frac{13}{16}$	96.285	75.622	30.827	11 $\frac{13}{16}$	139.54	109.59	37.110
9 $\frac{7}{8}$	97.516	76.589	31.023	11 $\frac{7}{8}$	141.02	110.75	37.307
9 $\frac{15}{16}$	98.754	77.561	31.220	11 $\frac{15}{16}$	142.50	111.92	37.503

Weight of
BRASS WIRE
Pounds per Linear Foot

Brown & Sharpe's Gauge

No.	Weight	No.	Weight
0000	0.6102	19	0.003715
000	.4839	20	.002946
00	.3838	21	.002336
0	.3044	22	.001853
1	.2414	23	.001469
2	.1914	24	.001165
3	.1518	25	.0009241
4	.1204	26	.0007328
5	.09547	27	.0005812
6	.07571	28	.0004609
7	.06004	29	.0003655
8	.04761	30	.0002898
9	.03776	31	.0002299
10	.02994	32	.0001823
11	.02375	33	.0001446
12	.01883	34	.0001146
13	.01493	35	.00009092
14	.01184	36	.00007210
15	.009393	37	.00005718
16	.007449	38	.00004535
17	.005907	39	.00003596
18	.004684	40	.00002852
		.001"	.000002884

Variations from these weights must be expected in practice.

Weight of BRASS, COPPER and TOBIN·BRONZE RODS

Pounds Per Linear Foot

Dia. Inch	Brass			Copper			Tobin Bronze			Dia. Inch
	Round	Square	Hexagon	Round	Square	Hexagon	Round	Square	Hexagon	
$\frac{1}{16}$	.01132	.01441	.01248	.01184	.01507	.01305	.01118	.01423	.01233	$\frac{1}{16}$
$\frac{1}{8}$	.04527	.05764	.04992	.04735	.06029	.05221	.04471	.05693	.04930	$\frac{1}{8}$
$\frac{3}{16}$	.1019	.1297	.1123	.1065	.1356	.1175	.1006	.1281	.1109	$\frac{3}{16}$
$\frac{1}{4}$	.1811	.2306	.1997	.1894	.2412	.2088	.1788	.2277	.1972	$\frac{1}{4}$
$\frac{5}{16}$	.2829	.3602	.3120	.2959	.3768	.3263	.2794	.3558	.3081	$\frac{5}{16}$
$\frac{3}{8}$	.4074	.5188	.4493	.4261	.5426	.4699	.4024	.5124	.4437	$\frac{3}{8}$
$\frac{7}{16}$	.5546	.7061	.6115	.5800	.7386	.6396	.5477	.6974	.6039	$\frac{7}{16}$
$\frac{1}{2}$	.7243	.9222	.7987	.7576	.9646	.8354	.7154	.9108	.7888	$\frac{1}{2}$
$\frac{9}{16}$	.9167	1.167	1.011	.9588	1.221	1.057	.9054	1.153	.9983	$\frac{9}{16}$
$\frac{5}{8}$	1.132	1.441	1.248	1.184	1.507	1.305	1.118	1.423	1.232	$\frac{5}{8}$
$\frac{3}{4}$	1.369	1.744	1.510	1.432	1.824	1.579	1.353	1.722	1.491	$\frac{3}{4}$
$\frac{7}{8}$	1.630	2.075	1.797	1.705	2.170	1.880	1.610	2.049	1.775	$\frac{7}{8}$
$1\frac{1}{8}$	1.913	2.435	2.109	2.001	2.547	2.206	1.889	2.405	2.083	$1\frac{1}{8}$
$1\frac{1}{4}$	2.218	2.824	2.446	2.320	2.954	2.558	2.191	2.789	2.416	$1\frac{1}{4}$
$1\frac{3}{8}$	2.546	3.242	2.808	2.663	3.391	2.937	2.515	3.202	2.773	$1\frac{3}{8}$
$1\frac{1}{2}$	2.897	3.689	3.195	3.030	3.858	3.341	2.862	3.643	3.155	$1\frac{1}{2}$
$1\frac{5}{8}$	3.271	4.164	3.607	3.421	4.356	3.772	3.230	4.113	3.562	$1\frac{5}{8}$
$1\frac{3}{4}$	3.667	4.669	4.043	3.835	4.883	4.229	3.622	4.611	3.993	$1\frac{3}{4}$
$1\frac{7}{8}$	4.086	5.202	4.505	4.273	5.441	4.712	4.035	5.138	4.449	$1\frac{7}{8}$
2	4.527	5.764	4.992	4.735	6.029	5.221	4.471	5.693	4.930	2
$2\frac{1}{8}$	4.991	6.355	5.503	5.220	6.647	5.756	4.929	6.276	5.435	$2\frac{1}{8}$
$2\frac{1}{4}$	5.478	6.974	6.040	5.729	7.295	6.317	5.410	6.888	5.965	$2\frac{1}{4}$
$2\frac{3}{8}$	5.987	7.623	6.602	6.262	7.973	6.905	5.913	7.529	6.520	$2\frac{3}{8}$
$2\frac{1}{2}$	6.519	8.300	7.188	6.818	8.681	7.518	6.438	8.198	7.099	$2\frac{1}{2}$
$2\frac{7}{8}$	7.073	9.006	7.800	7.398	9.420	8.158	6.986	8.895	7.703	$2\frac{7}{8}$
3	7.651	9.741	8.436	8.002	10.19	8.824	7.556	9.621	8.332	3

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Subject to change without notice and all quotations made by this Company, unless otherwise agreed, are binding only for immediate acceptance. Cancellation of orders for special materials will not be accepted without our written consent.

TERMS:

To firms of approved credit, 30 days net or 1% discount 10 days from date of invoice. Firms with whom we are not acquainted, or who are not favorably rated by Commercial Agencies, will kindly furnish us with references to use to investigate them. To avoid delays, this should be done with first order or inquiry.

RESPONSIBILITY FOR DELAYS:

This Company will not be responsible for delays in deliveries when such delays are caused by reason of Strikes, Fires, Accidents or other causes beyond its control.

ADJUSTMENT OF CLAIMS:

When material of any kind furnished by this Company is defective or not up to standard, it will be accepted back or replaced, but under no circumstances will claims be allowed for damages or for any expense incurred by the use of such material.

FREIGHT ALLOWANCE:

No freight will be allowed on orders which do not permit shipment of at least 500 lbs. net at one time from the mill.

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When shipped as ordered, no goods may be returned without our written consent. When permitted, all return freight and drayage charges must be prepaid and 10% of invoice value will be charged for rehandling.

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